

MATCH WITH FIG. 1A FIG. 1B

241 AAGCTATTCTCTTTCACCAAGTACTTCTCAAGATTGAGAAGACGGGAAGGTCAGCGGG
 -----+-----+-----+-----+-----+-----+-----+
 300 TTCCGATAAGAGAAAGTGGTTCATGAAGAGATTCTAACTCTTCTTGCCCTTCCAGTCGCCCC

K L F S F T K Y F L K I E K N G K V S G -

301 ACCAAGAGGAGAACTGCCCGTACAGCATCCTCGAGATAACATCAGTAGAAATCGGAGTT
 -----+-----+-----+-----+-----+-----+-----+
 360 TGGTTCTTCTCTTGACGGGCATGTCGTAGGACCTCTATTGTAGTCATCTTTAGCCCTCAA

T K K E N C P Y S I L E I T S V E I G V -

361 GTGCCGTCAAAGCCATTAAACAGCAACTATTACTTAGCCATGAACAAGAGGGAACTC
 -----+-----+-----+-----+-----+-----+-----+
 420 CAACGGCAGTTTCGGTAATTGTCGTTGATAAATGAATCGGTACTTGTCTTCCCTTTGAG

V A V K A I N S N Y Y L A M N K K G K L -

421 TATGGCTCAAAGAATTTAACAATGACTGTAAAGCTGAAGGAGGATAGAGGAAATGGA
 -----+-----+-----+-----+-----+-----+-----+
 480 ATACCGAGTTTCTTAAATTGTTACTGACATTCGACTTCCCTCTCCTATCTCCTTTACCT

Y G S K E F N N D C K L K E R I E E N G -

MATCH WITH FIG. 1C

FIG. 2A

FGF4	1	MS.GPGTAAV	ALLPAVLAL	LA.....	..PWAGRGAA	APTAPNGTLE	50
FGF6		MSRGAGRLOG	TLWALVFLGI	LV.....	..GMVVPSPAG	TR.ANNTLLD	
FGF5		.....MSL	SFLLLLFFSH	LILSAWAHGE	KRLAPKGQPG	PAATDRNPIG	
FGF1		.....	.....	.....	.....	.....
FGF2		.....	.....	.....	.....	.....
FGF9		.....	.....	.....	.....	.....
FGF7		.....	.....	.....	..MAPLGEVG	NYFGVQDAVP	
KGF2		.....	.....MHKW	ILTWILPTLL	.....YRSCF	HIICLVGTIS	
FGF3		.....	.....MKW	ILTHCASAFF	HLPGCCCCCF	LLLFLVSSVP	
FGF8		.....	.....	.....	.....MGL	IWLLLLSLE	
		MGSPRSALSC	LLLHLLVLCL	QAQVRSAAQK	RGPAGNPAD	TLGQGHEDRP	

FGF4	51	AELERRWESL	VALSLARLPV	AA..QPKEAA	VQSGAGDY..	...	LLGIKRL	100
FGF6		S...RGWGTL	LSRSRAGLAG	EI.....AG	VNWESG.Y..	...	LVGIKRQ	
FGF5		SSSRQSSSA	MSSSSASSSP	AASLGSGSG	LEQSSFQW..	...	SPSGRRT	
FGF1		.....MAEG	EITTFALTE	KFN...LPPG	.....N..	...	YK...KP	
FGF2		.....MAAG	SITTLPALPE	DGGSGAFPPG	.....H..	...	EK...DP	
FGF9		FGNVPLPVD	SPVLLSDHLG	QSEAGGLPRG	PAVTDLDH..	...	LKGILRR	
FGF7		LACNDMTPEQ	M...ATNVNC	.....SSPE	RHTRSYDY..	...	MEGGDIR	
KGF2		VTCQALGQDM	VSPEATNSSS	SSFSSPSSAG	RHVRSYNH..	...	LQ.GDVR	
FGF3		PGWPAAGPGA	.....	...RLRRDAG	GRGGVYEH..	...	L.GGAPR	
FGF8		FGQSRAGKN	FTNPAPNYPE	EGSKEQRDSV	LPKVTQRHVR	...	EQSLVTDQLS	

MATCH WITH FIG. 2B

MATCH WITH FIG. 2A

FIG. 2B

101

150

FGF4	RRL.....YC	NVGIGFHLQA	LPDGRIGGAH	ADT.RDSLLE	LSPVERGV.V
FGF6	RRL.....YC	NVGIGFHLQV	LPDGRISGTH	EEN.PYSLLE	ISTVERGV.V
FGF5	GSL.....YC	RVGIGFHLQI	YPDGKVNESH	EAN.MLSVLE	IFAVSQGI.V
FGF1	KLL.....YC	SNG.GHFLRI	LPDGTVDGTR	DRSDQHIQLQ	LSAESVGE.V
FGF2	KRL.....YC	KNG.GFFLRI	HPDGRVDGVR	EKSDPHIKLQ	LQAEERGV.V
FGF9	RQL.....YC	R.T.GFHLEI	FPNGTIQGTR	KDHSRFGILE	FISIAVGL.V
FGF7	VRR.....LF	CRT.QWYLRI	DRGKVKGTQ	EMKNNYNIME	IRTVAVGI.V
KGF2	WRK.....LF	SFT.XYFLKI	EKNGKVSGTK	KENCYPYSILE	ITSVEIGV.V
FGF3	RRK.....LY	CAT.KYHLQL	HPSGRVNGSL	.ENSAYSILE	ITAVEVGI.V
FGF8	RRLIRTYQLY	SRTSGKHVQV	LANKRINAMA	EDGDPFAKLI	VETDTFGSRV

151

200

FGF4	SIFGVASRFF	VAMSSKGKLY	G.SPFFTDEC	TFKEILLPNN	YNAYESYKYF
FGF6	SLFGVRSALF	VAMNSKGRLY	A.TPSEQEEC	KFRETLLPNN	YNAYESDL
FGF5	GIRGVFSNKF	LAMSKKGKLY	A.SAKFTDDC	KFRERFOENS	YNTYAS
FGF1	YIKSTETGQY	LAMDTDGLLY	G.SQTPNEEC	LFLEERLEENH	YNTYIS
FGF2	SIKGVCANRY	LAMKEDGRLL	A.SKCVTDEC	FFFERLESNN	YNTY
FGF9	SIRGVDSGLY	LGMNEKGELY	G.SEKLTQEC	VFREQFEENW	YNTYR
FGF7	AIKGVSESEFY	LAMNKEGKLY	A.KKECNEDC	NFKELILENH	YNTYR
KGF2	AVKAINSINY	LAMNKGKLY	G.SKEFNDC	KLKERIEENG	YONAKY
FGF3	AIRGLESGRY	LAMNKRGRLY	A.SEHYSAEC	EFVERIHELG	
FGF8	RVRGAETGLY	ICMNNKGKLI	AKSNGKGKDC	VFTETIVLEN	

MATCH WITH FIG. 2C

MATCH WITH FIG. 2B FIG. 2C

201

FGF4	.....	GM.....	FI	ALSKNGKTKK	G..	NRVSPTM	250	KVTHFLPRL.
FGF6	.....	GT.....	YI	ALSKYGRVKR	G...	SKVSPIM		TVTHFLPRI.
FGF5	.....	TEKTGREWYV		ALNKRKGAKR	GCS	PRVKPQH		ISTHFLPRFK
FGF1	.....	...AEKNWFV		GLKKNGSCKR	G..	PRTHYGQ		KAILFLPLPV
FGF2	.....	...T..SWYV		ALKRTGQYKL	G..	SKTGPGQ		KAILFLPMSA
FGF9	.....	...DTGRRYV		ALNKDGTPRE	G..	TRTKRHQ		KFTHFLPRPV
FGF7	.....	...AKW THNGGEM.FV		ALNQKGIPVR	G..	KKTKKEQ		KTAHFLPMAI
KGF2	.....	...FNV QHNGROM.YV		ALNGKGAPRR	G..	QKTRRKN		TAHFLPMVV
FGF3	.....	TVSSTPGARR		QPSAERLWYV	G..	FKTRRTQ		KSSLFLPRVL
FGF8	.....	.....EGWYM		AFTRKGRPRK	G..	SKTRQHQ		REVHFMKRLP

251

FGF4	.....	.....	.....	.....	.....	.....	300
FGF6	.....	.....	.....	.....	.....	.....
FGF5	QSEQPELSFT	VTVPEKKNPP	SPIKSKIPLS	APRKNTNSVK	YRLKFRFG..		
FGF1	SSD.....	.....	.....	.....	.....
FGF2	KS.....	.....	.....	.....	.....
FGF9	DPDKVPELYK	DILSQS...	.....	.....	.....
FGF7	T.....	.....	.....	.....	.....
KGF2	HS.....	.....	.....	.....	.....
FGF3	DHRDHEMVRQ	LQSGLEPPPG	KGVPRRRRQ	KQSPDNLEPS	HVQASRLGSQ		
FGF8	RGHHTTEQSL	RFEFLNYPPE	TRSLRGSQRT	WAPEPR....	.....	

MATCH WITH FIG. 2D

SECRET

FIG. 2D

MATCH WITH FIG. 2C

301	FGF4	.....
	FGF6	.....
	FGF5	.....
	FGF1	.....
	FGF2	.....
	FGF9	.....
	FGF7	.....
	KGF2	.....
	FGF3	LEASAH
	FGF8	.....

Figure 3A

GGAATTCCGG GAAGAGAGGG AAGAAAACAA CGGCGACTGG GCAGCTGCCT CCACTTCTGA	60
CAACTCCAAA GGGATATACT TGTAAGAAGT GCTCGCAGGC TGGGGCTCCG CAGAGAGAGA	120
CCAGAAGGTG CCAACCGCAG AGGGGTGCAG ATATCTCCCC CTATTCCCCA CCCCACCTCC	180
CTTGGGTTTT GTTCACCGTG CTGTCATCTG TTTTTCAGAC CTTTTTGGCA TCTAACATGG	240
TGAAGAAAGG AGTAAAGAAG AGAACAAAGT AACTCCTGGG GGAGCGAAGA GCGCTGGTGA	300
CCAACACCAC CAACGCCACC ACCAGCTCCT GCTGCTGCGG CCACCCACGT CCACCATTTA	360
CCGGGAGGCT CCAGAGGCGT AGGCAGCGGA TCCGAGAAAG GAGCGAGGGG AGTCAGCCGG	420
CTTTTCCGAG GAGTTATGGA TGTGGGTGCA TTCACTTCTG GCCAGATCCG CGCCCAGAGG	480
GAGCTAACCA GCAGCCACCA CCTCGAGCTC TCTCCTTGCC TTGCATCGGG TCTTACCCTT	540
CCAGTATGTT CTTTCTGATG AGACAATTTC CAGTGCCGAG AGTTTCAGTA CA ATG	595
	Met
TGG AAA TGG ATA CTG ACA CAT TGT GCC TCA GCC TTT CCC CAC CTG CCC	643
Trp Lys Trp Ile Leu Thr His Cys Ala Ser Ala Phe Pro His Leu Pro	
GGC TGC TGC TGC TGC TGC TTT TTG TTG CTG TTC TTG GTG TCT TCC GTC	691
Gly Cys Cys Cys Cys Cys Phe Leu Leu Leu Phe Leu Val Ser Ser Val	
CCT GTC ACC TGC CAA GCC CTT GGT CAG GAC ATG GTG TCA CCA GAG GCC	739
Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu Ala	
ACC AAC TCT TCT TCC TCC TCC TTC TCC TCT CCT TCC AGC GCG GGA AGG	787
Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly Arg	
CAT GTG CGG AGC TAC AAT CAC CTT CAA GGA GAT GTC CGC TGG AGA AAG	835
His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg Lys	
CTA TTC TCT TTC ACC AAG TAC TTT CTC AAG ATT GAG AAG AAC GGG AAG	883
Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys	
GTC AGC GGG ACC AAG AAG GAG AAC TGC CCG TAC AGC ATC CTG GAG ATA	931
Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile	
ACA TCA GTA GAA ATC GGA GTT GTT GCC GTC AAA GCC ATT AAC AGC AAC	979
Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn	
TAT TAC TTA GCC ATG AAC AAG AAG GGG AAA CTC TAT GGC TCA AAA GAA	1027
Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu	
TTT AAC AAT GAC TGT AAG CTG AAG GAG AGG ATA GAG GAA AAT GGA TAC	1075
Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly Tyr	

Figure 3B

AAT ACC TAT GCA TCA TTT AAC TGG CAG CAT AAT GGG AGG CAA ATG TAT -	1123
Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr	
GTG GCA TTG AAT GGA AAA GGA GCT CCA AGG AGA GGA CAG AAA ACA CGA	1171
Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg	
AGG AAA AAC ACC TCT GCT CAC TTT CTT CCA ATG GTG GTA CAC TCA	1216
Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser	
TAGAGGAAGG CAACGTTTGT GGATGCAGTA AAACCAATGG CTCCTTTTGCC AAGAATAGTG	1276
GATATTCTTC ATGAAGACAG TAGATTGAAA GGCAAAGACA CGTTGCAGAT GTCTGCTTGC	1336
TTAAAAGAAA GCCAGCCTTT GAAGGTTTTT GTATTCACTG CTGACATATG ATGTTCTTTT	1396
AATTAGTTCT GTGTCATGTC TTATAATCAA GATATAGGCA GATCGAATGG GATAGAAGTT	1456
ATTCCCAAGT GAAAAACATT GTGGCTGGGT TTTTGTGTTGT TGTGTCAAG TTTTGTTTT	1516
TAAACCTCTG AGATAGAACT TAAAGGACAT AGAACAATCT GTTGAAAGAA CGATCTTCGG	1576
GAAAGTTATT TATGGAATAC GAACTCATAT CAAAGACTTC ATTGCTCATT CAAGCCTAAT	1636
GAATCAATGA ACAGTAATAC GTGCAAGCAT TTA CTGGAAA GCACTTGGGT CATATCATAT	1696
GCACAACCAA AGGAGTTCTG GATGTGGTCT CATGGAATAA TTGAATAGAA TTTAAAATA	1756
TAAACATGTT AGTGTGAAAC TGTTCTAACA ATACAAATAG TATGGTATGC TTGTGCATTC	1816
TGCCTTCATC CCTTCTATT TCTTCTAAG TTATTTATTT AATAGGATGT TAAATATCTT	1876
TTGGGGTTTT AAAGAGTATC TCAGCAGCTG TCTTCTGATT TATCTTTTCT TTTTATTCAG	1936
CACACCACAT GCATGTTTAC GACAAAGTGT TTTTAAACT TGGCGAACAC TTCAAAAATA	1996
GGAGTTGGGA TTAGGGAAGC AGTATGAGTG CCCGTGTGCT ATCAGTTGAC TTAATTTGCA	2056
CTTCTGCAGT AATAACCATC AACAATAAAT ATGGCAATGC TGTGCCATGG CTTGAGTGAG	2116
AGATGTCTGC TATCATTTGA AACATATAT TACTCTCGAG GCTTCCTGTC TCAAGAAATA	2176
GACCAGAAGG CCAAAATTCTT CTCTTTCAAT ACATCAGTTT GCCTCCAAGA ATATACTAAA	2236
AAAAGGAAAA TTAATTGCTA AATACATTTA AATAGCCTAG CCTCATTATT TACTCATGAT	2296
TTCTTGCCAA ATGTCATGGC GGTAAAGAGG CTGTCCACAT CTCTAAAAAC CCTCTGTAAA	2356
TTCCACATAA TGCATCTTTC CCAAAGGAAC TATAAAGAAT TTGGTATGAA GCGCAACTCT	2416

Figure 3C

CCCAGGGGCT	TAAACTGAGC	AAATCAAATA	TATACTGGTA	TATGTGTAAC	CATATACAAA	2476
AACCTGTTCT	AGCTGTATGA	TCTAGTCTTT	ACAAAACCAA	ATAAAACTTG	TTTTCTGTAA	2536
ATTTAAAGAG	CTTTACAAGG	TTCCATAATG	TAACCATATC	AAAATTCATT	TTGTTAGAGC	2596
ACGTATAGAA	AAGAGTACAT	AAGAGTTTAC	CAATCATCAT	CACATTGTAT	TCCACTAAAT	2656
AAATACATAA	GCCTTATTTG	CAGTGTCTGT	AGTGATTTTA	AAAATGTAGA	AAAATACTAT	2716
TTGTTCTAAA	TACTTTTAAG	CAATAACTAT	AATAGTATAT	TGATGCTGCA	GTTTTATCTT	2776
CATATTTCTT	GTTTTGAAAA	AGCATTTTAT	TGTTTGGACA	CAGTATTTTG	GTACAAAAAA	2836
AAAGACTCAC	TAAATGTGTC	TTACTAAAGT	TTAACCTTTG	GAAATGCTGG	CGTTCGTGTA	2896
TTCTCCAACA	AACTTATTTG	TGTCAATACT	TAACCAGCAC	TTCCAGTTAA	TCTGTTATTT	2956
TTAAAAATTG	CTTTATTAAG	AAATTTTTTG	TATAATCCCA	TAAAAGGTCA	TATTTTCCCC	3016
ATTCTTCAAA	AAAACGTAT	TTCAGAAGAA	ACACATTGTA	GGCACTGTCT	TTTGGCTTAT	3076
AGTTTAAATT	GCATTTTCATC	ATACTTTGCT	TCCAACCTGC	TTTTTGGCAA	ATGAGATTAT	3136
AAAAATGTTT	AATTTTTGTG	GTTGGAATCT	GGATGTTAAA	ATTTAATTGG	TAACTCAGTC	3196
TGTGAGCTAT	AATGTAATGC	ATTCCCTATCC	AAACTAGGTA	TCTTTTTTTC	CTTTATGTTG	3256
AAATAATAAT	GGCACCTGAC	ACATAGACAT	AGACCACCCA	CAACCTAAAT	TAAATGTTTG	3316
GTAAGACAAA	TACACATTGG	ATGACCACAG	TAACAGCAAA	CAGGGCACAA	ACTGGATTCT	3376
TATTTACAT	AGACATTTAG	ATTACTAAAG	AGGGCTATGT	GTAAACAGTC	ATCATTATAG	3436
TACTCAAGAC	ACTAAACAG	CTTCTAGCCA	AATATATTAA	AGCTTGCAGA	GGCCAAAAAT	3496
AGAAAACATC	TCCCCTGTCT	CTCCACATT	TCCCTCACAG	AAAGACAAAA	AACCTGCCTG	3556
GTGCAGTAGC	TCACACCTGT	AATCCCAGCA	GTTTGGGAGA	CTGTGGGAAG	ATGGCTTGAG	3616
TCCAGGAGTT	CTAGACAGGC	CTGAGAAACC	TAGTGAGACA	TCCTTCTCTT	AAACAAAACA	3676
AAACAAAACA	AATGTAGCCA	TGCGTGGTGG	CATATACCTG	TGGTCCCAAC	TACTCAGGAG	3736
GCTGAAACGG	AAGGATCTCT	TGGGCCCCAG	GAGTTTGAGG	CTGCAGTGAG	CTATAATCTT	3796
GCCATTGCAC	TCCAGCCTGG	GTGAAAAAGA	GCCAGAAAGA	AAGGAAAGAG	AGAAAAGAGA	3856
AAAGAAAGAG	AGAAAAGACA	GAAAGACAGG	AAGGAAGGAA	GGAAGGAAGG	AAGGAAGGAA	3916
GGAAGCAAGG	AAAGAAGGAA	GGAAGGAAAG	AAGGGAGGGA	AGGAAGGAGA	GAGAAAGAAA	3976
GATTGTTTGG	TAAGGAGTAA	TGACATTCTC	TTGCATTTAA	AAGTGGCATA	TTTGCTTGAA	4036

Figure 3D

ATGGAAATAG AATTCTGGTC CCTTTTGCAA CTACTGAAGA AAAAAAAAAAG CAGTTTCAGC	4096
CCTGAATGTT GTAGATTTGA AAAAAAAAAA AAAAAAACTC GAGGGGGGGC CCGTACCCAA	4156
TTCGCCCTAT AGTGAGTCGT A	4177

[illegible]

Figure 4A

MMWKWI LTHCASA FPHLPGCCCCCFLL LFLVSSVPVTCQA LGQDMV

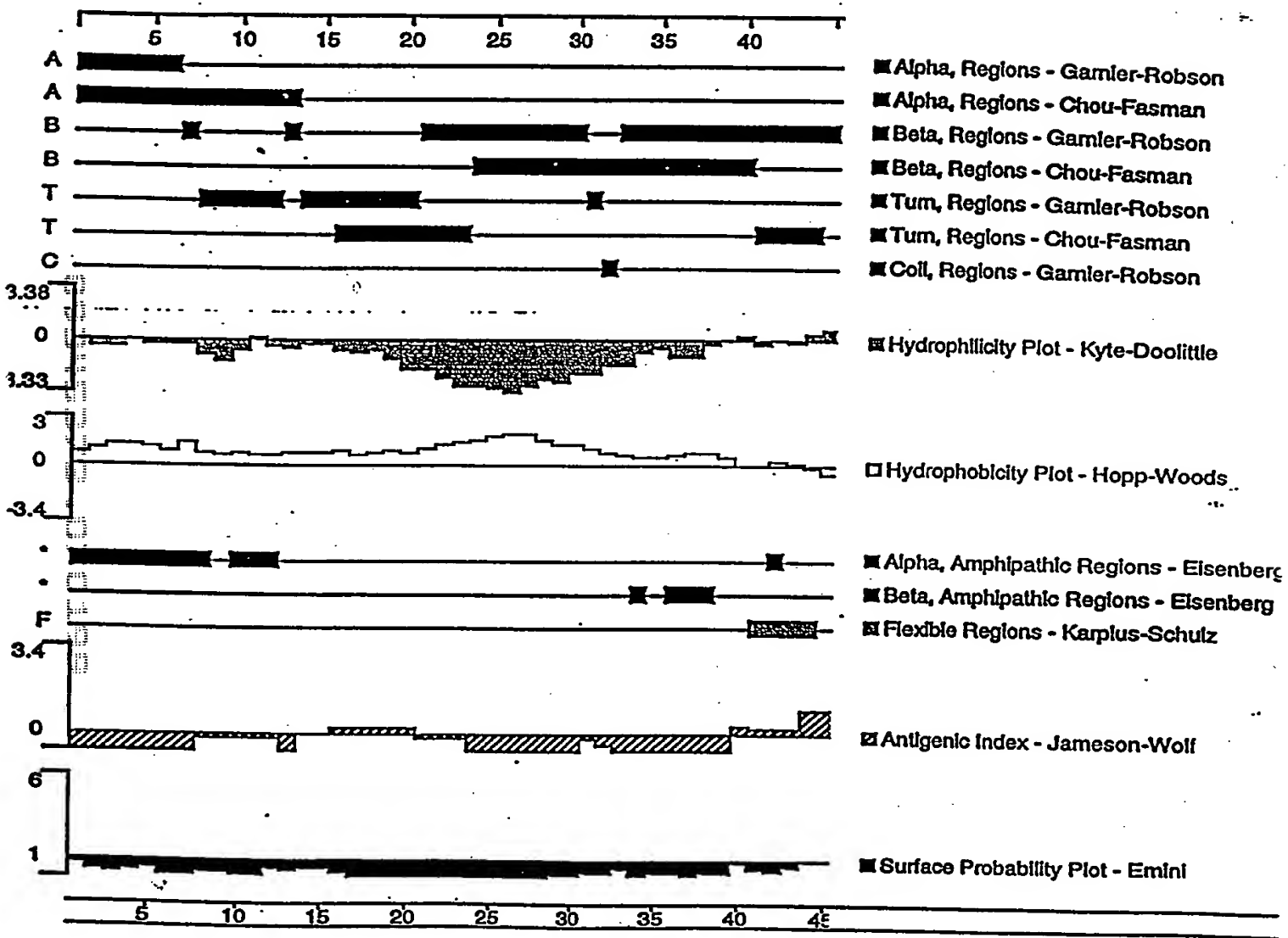


Figure 4C

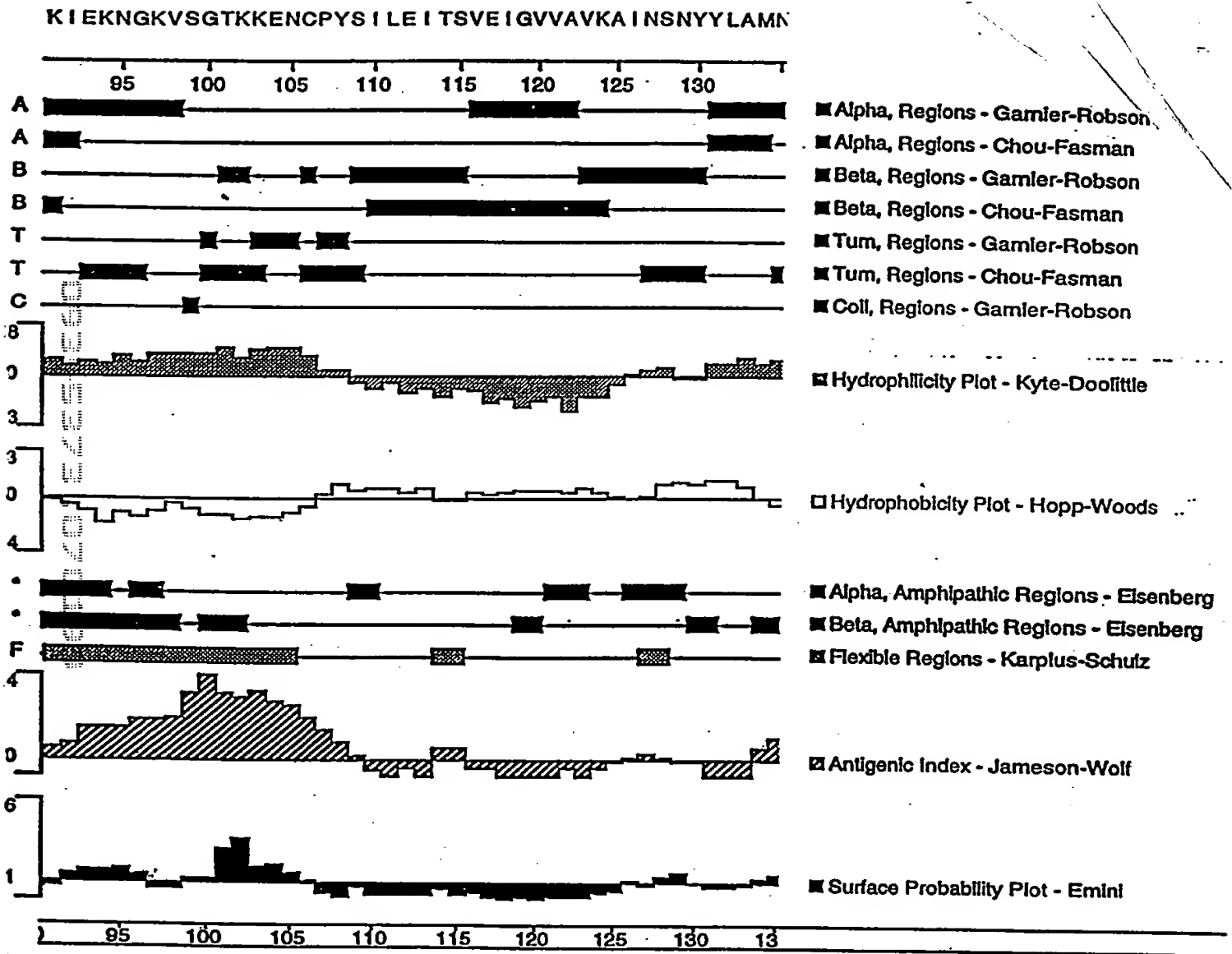


Figure 4B

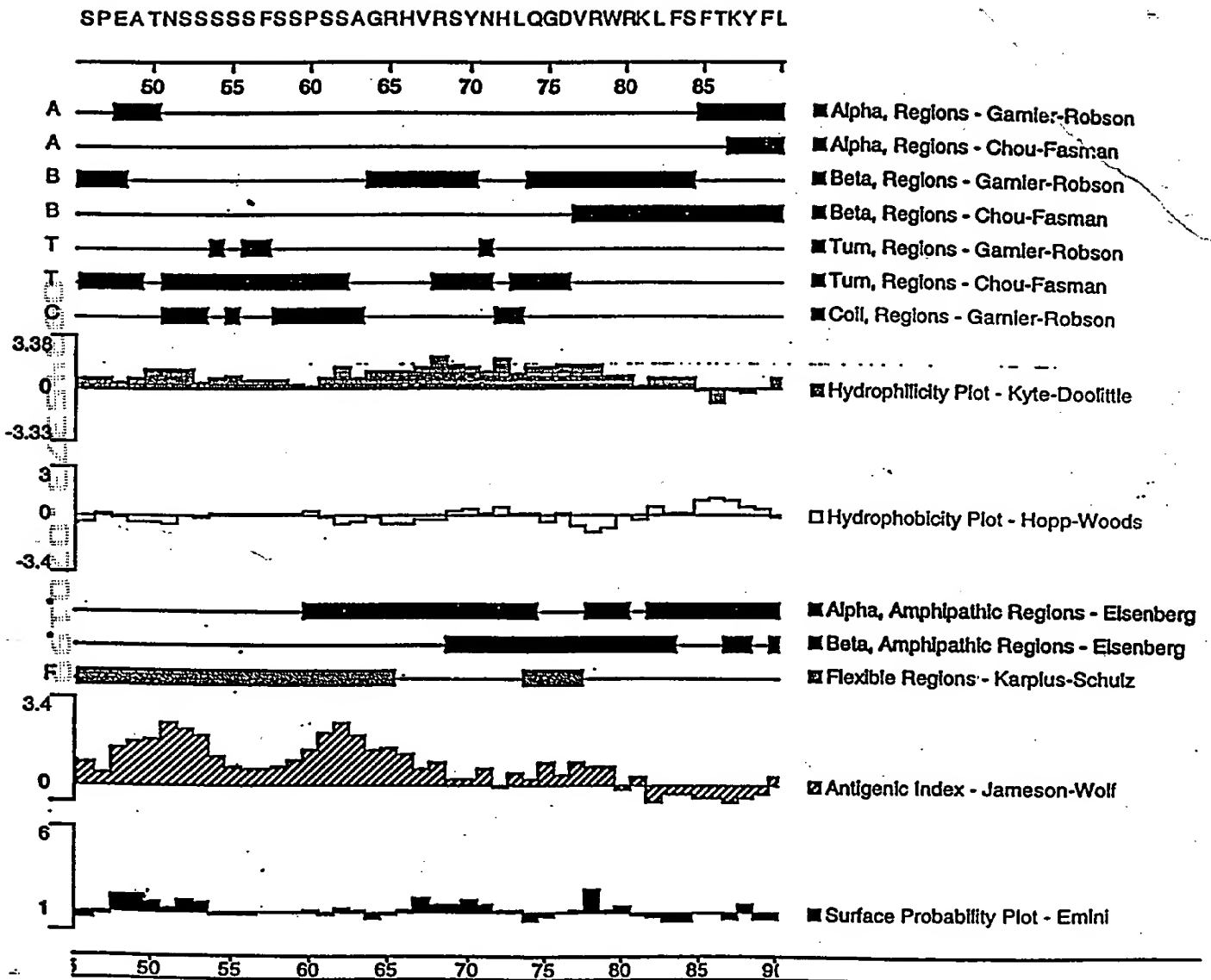


Figure 4D

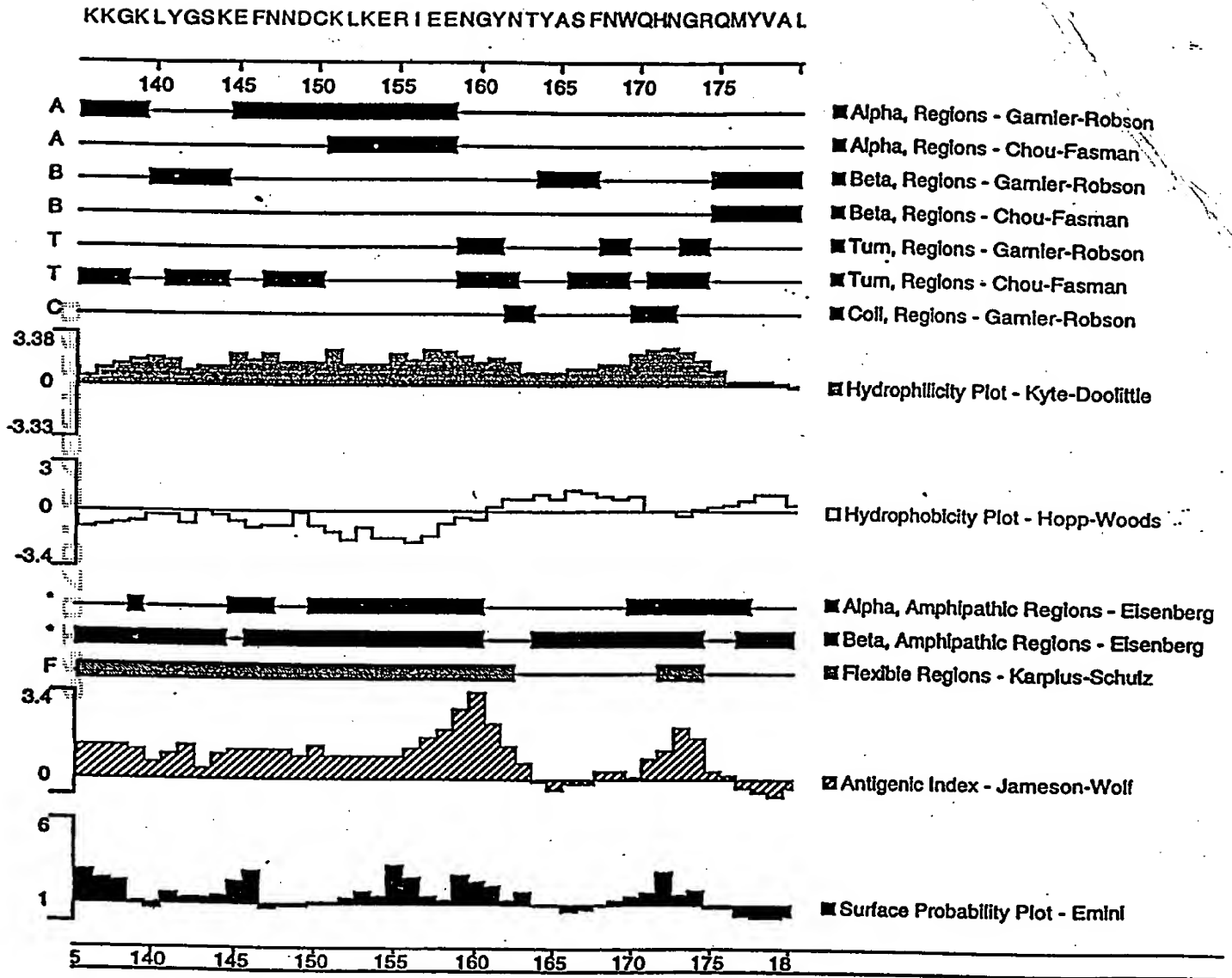


Figure 4E

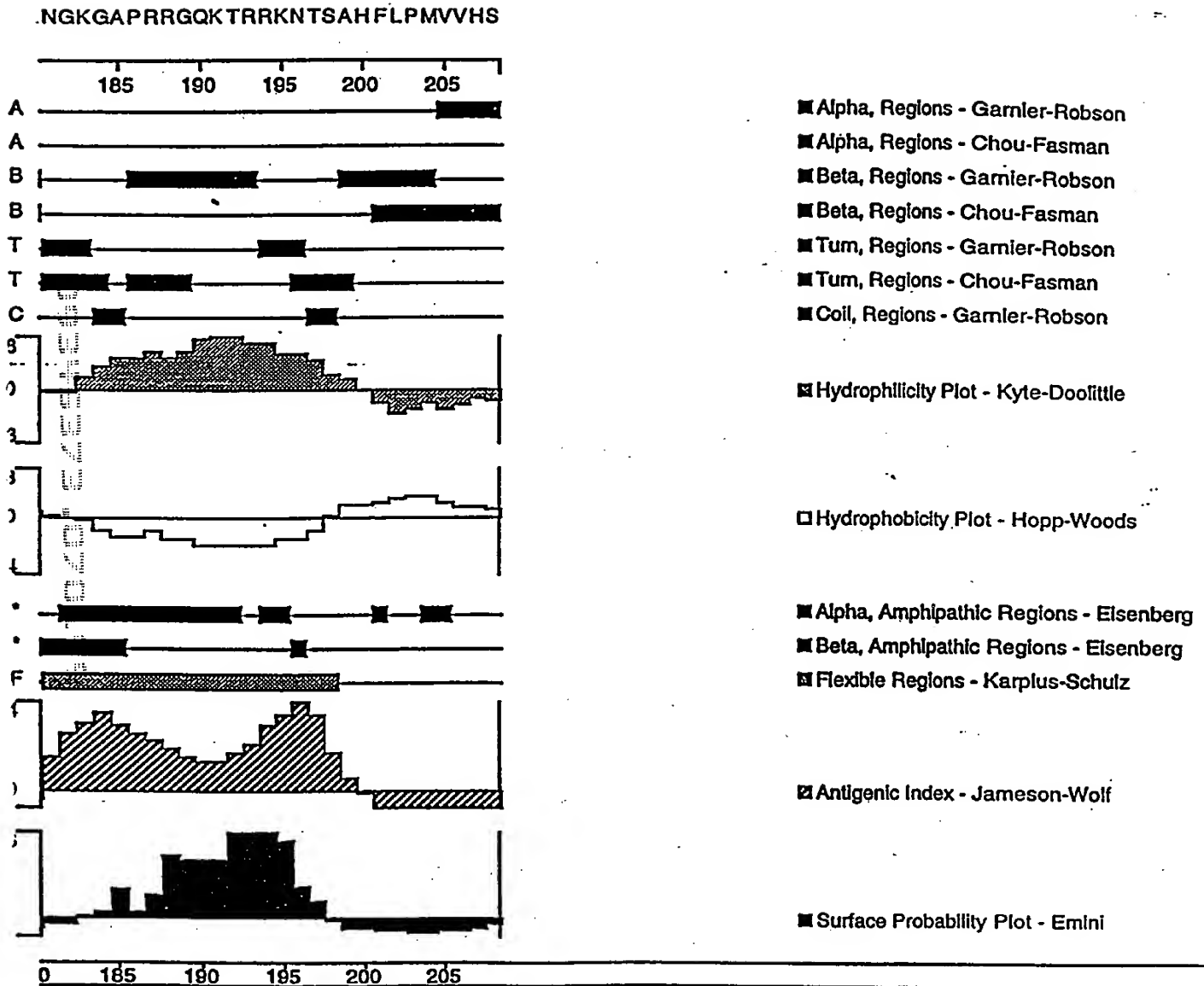


Figure 5

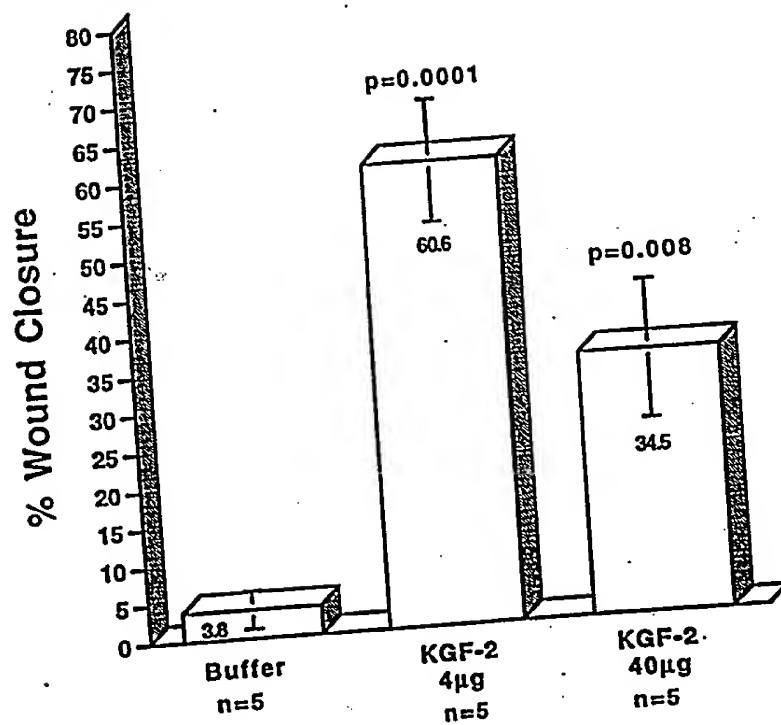


Figure 6

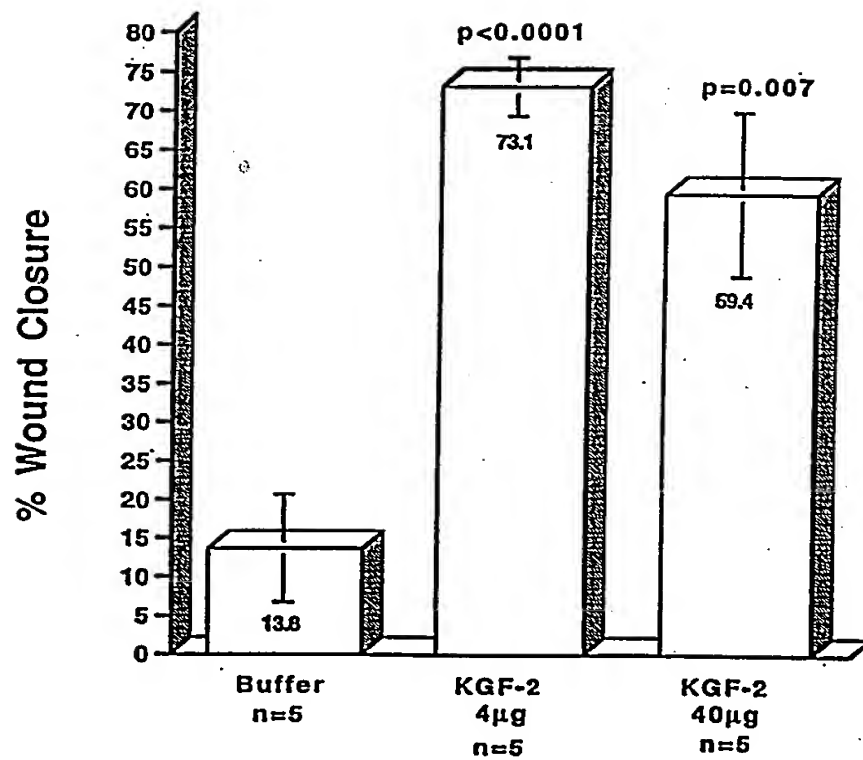


Figure 7

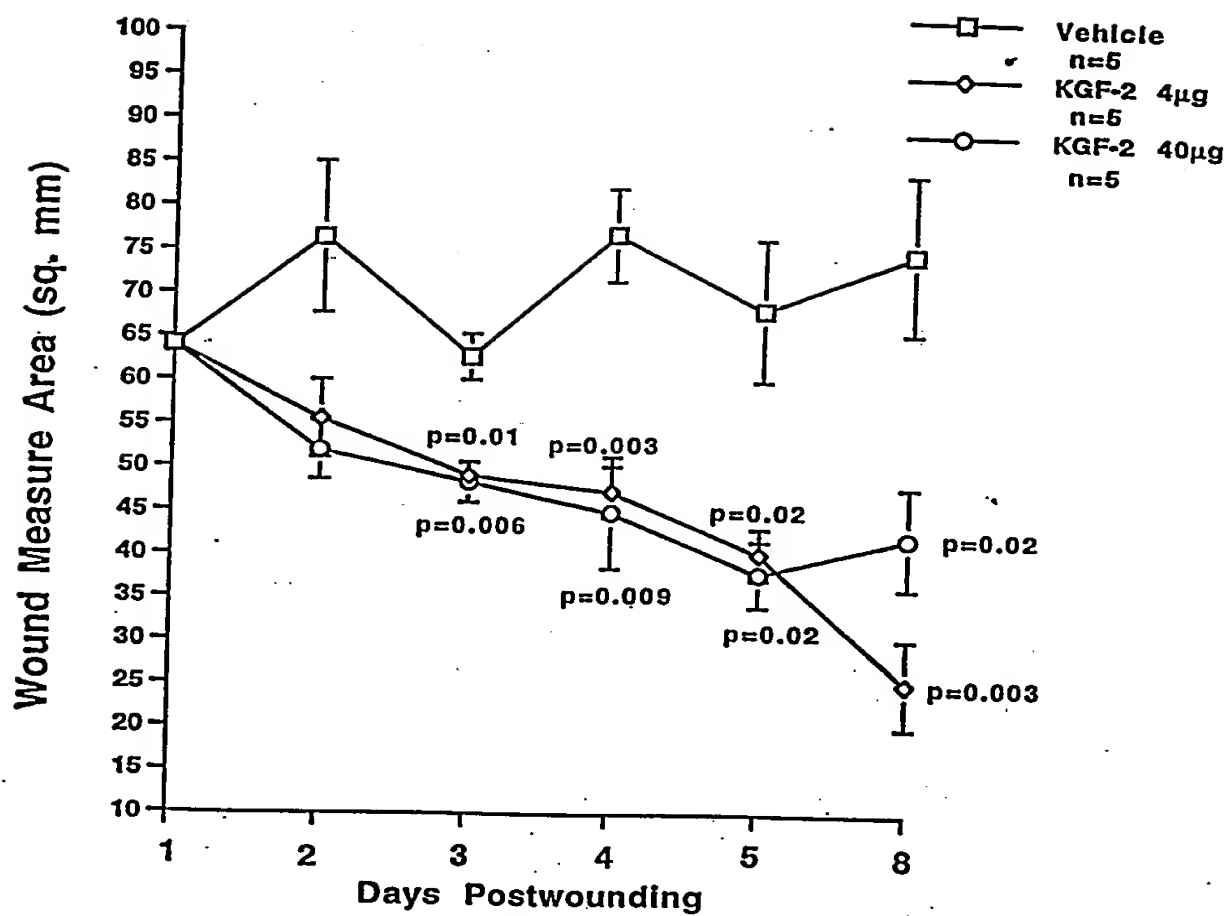


Figure 8

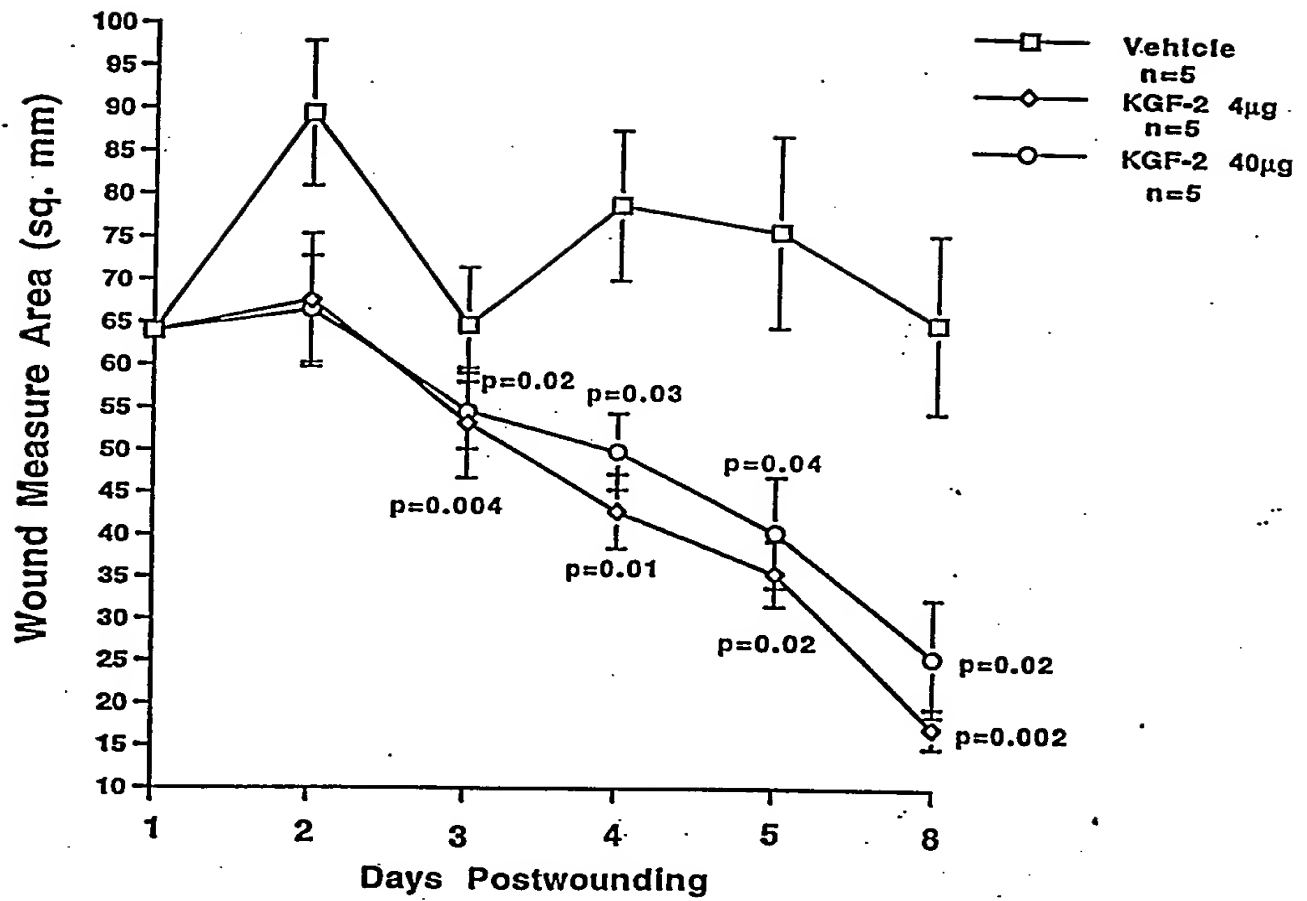
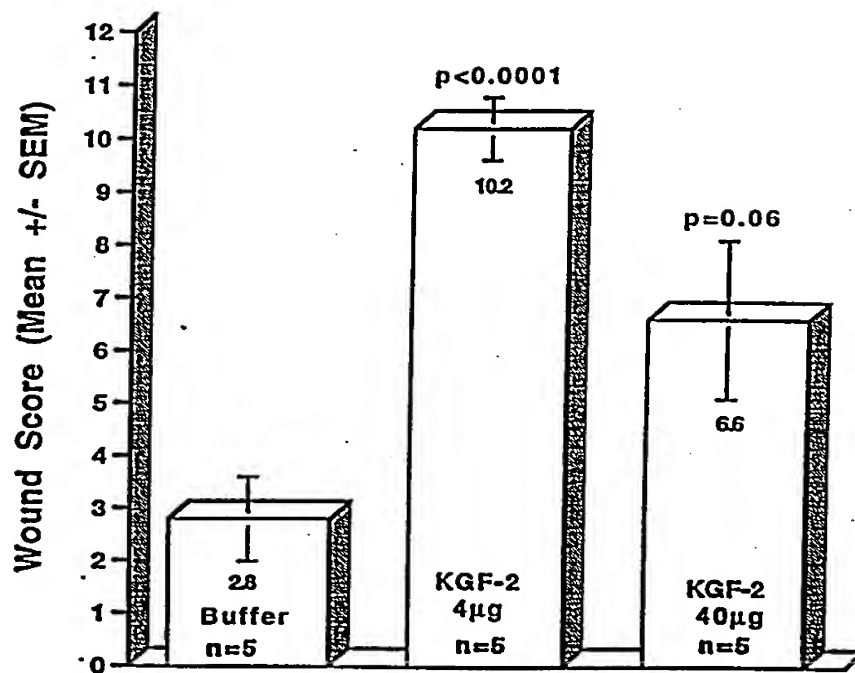
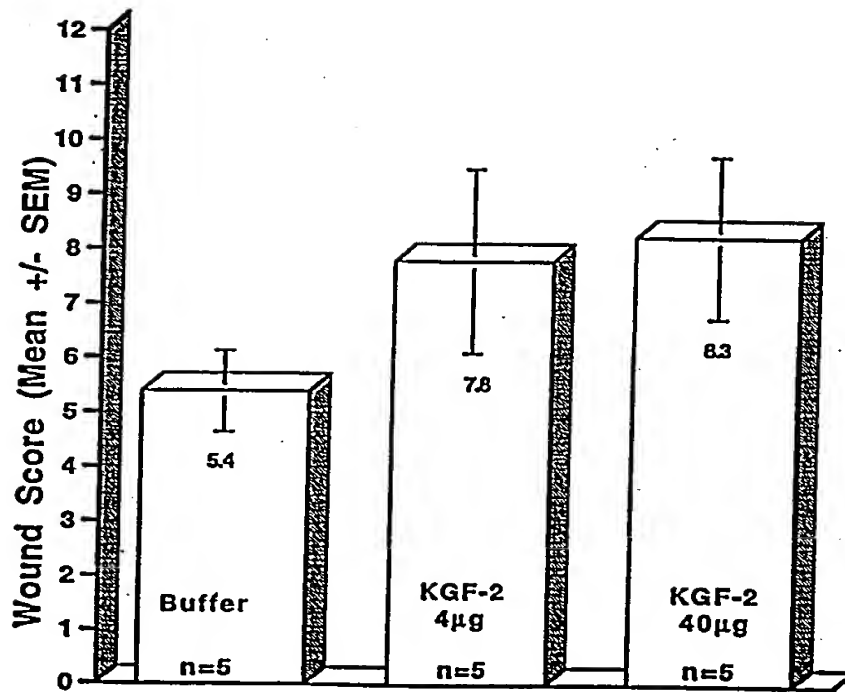


Figure 9



1-3 Minimal cell accumulation, no granulation
4-6 Immature granulation, inflammatory cells, capillaries
10-12 Fibroblasts, collagen, epithelium

Figure 10



1-3 Minimal cell accumulation, no granulation
4-6 Immature granulation, inflammatory cells, capillaries
7-9 Granulation tissue, cells, fibroblasts, new epithellum
10-12 Fibroblasts, collagen, eplthellum

Figure 11

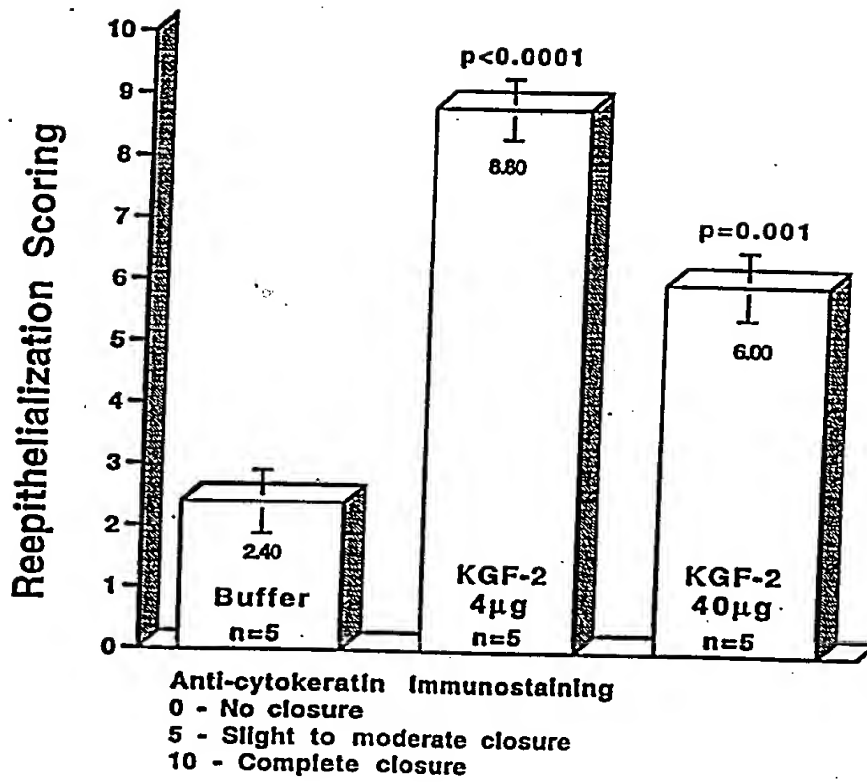


Figure 12

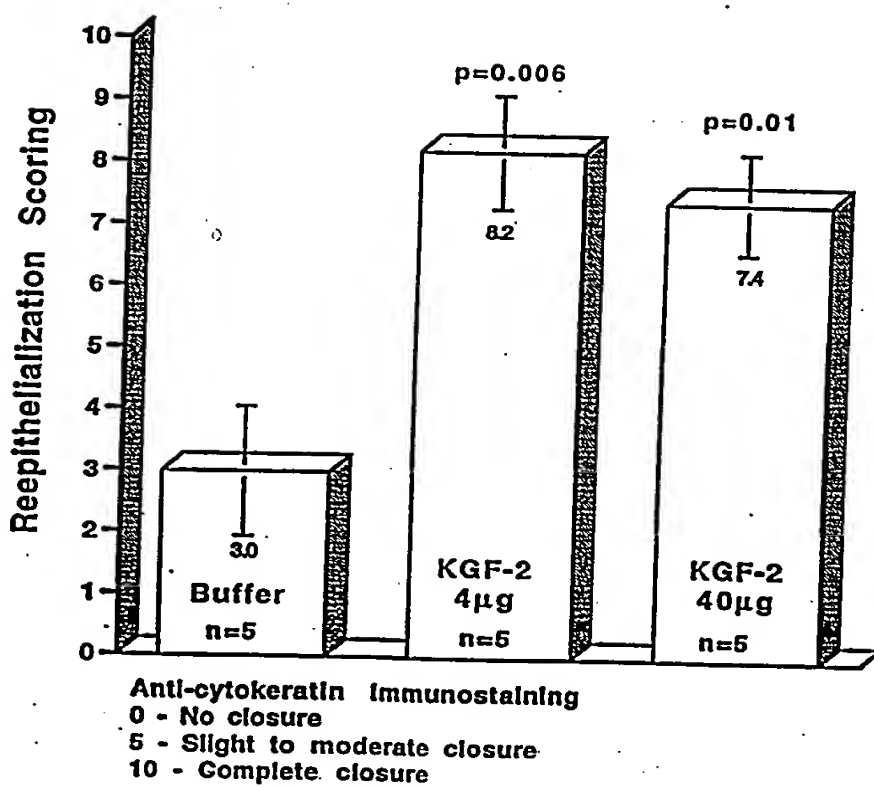


Figure 13

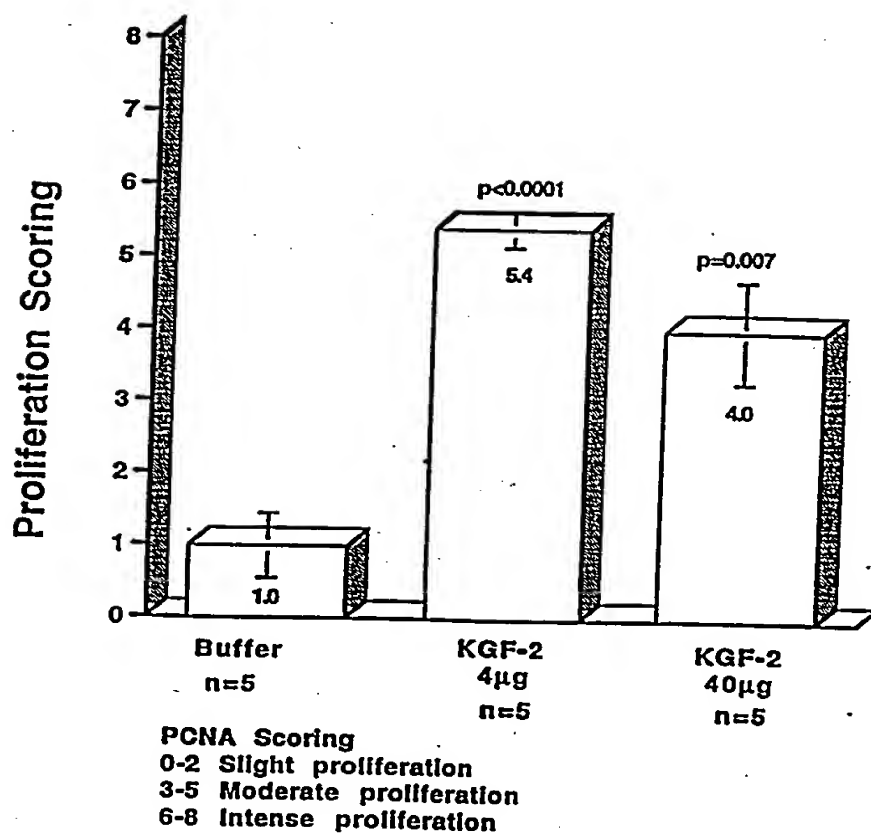
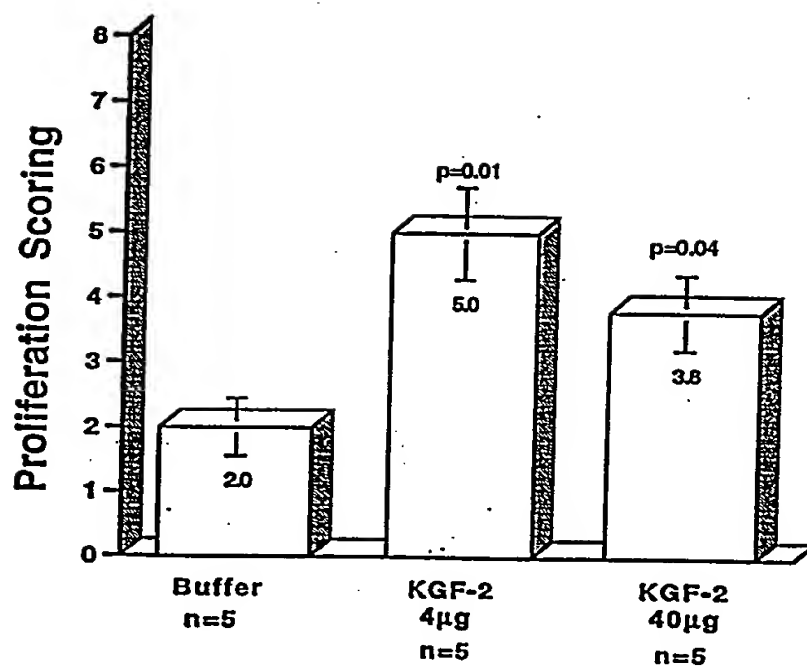


Figure 14



PCNA Scoring
0-2 Slight proliferation
3-5 Moderate proliferation
6-8 Intense proliferation

Figure 15

ATGAGAGGATCGCATCACCATCACCATCACGGATCCTGOCAGGCTCTGGGTC
 AGGACATGGTITTCIOGGAAGCTACCAACICTTCTCTTCTCTTCTCTTOCC
 CGTCTTIOGCTGGTCTGTCACGTTCTTACAAOCCCTGCAGGGTGACGTTT
 GTTGGOGTAAACTGTTCTCTTTCACCAAATACTTCTGAAAATCGAAAAA
 AACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGOCOGTACAGCATCCTG
 GAGATAACATCAGTAGAAATOGGAGTTGTTGCCGICAAAGCCATTAAACAG
 CAACTATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAAG
 AATTTAACAATGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGAT
 ACAATACCTATGCATCATTAACTGGCAGCATAATGGGAGGCAAATGTAT
 GTGGCATTGA₂TGGAAAAGGAGCTCCA₂GGAGAGGACAGAAAACACGAAG
 GAAAAACACCTCTGCTCACTTCTTCCAATGGTGGTACACTCATAG

MRGSHHHHHHGSCQALGQDMVSPEATNSSSSSFSSPSSAGRHVRSYNHLQGD
 VRWRKLFSFTKYFLKIEKNGKVSGTKKENCYPYSILEITSVEIGVVAVKAINSN
 YYLAMNKKKGKLYGSKEFNNDCKLKERIBENGYNTYASFNWQHNGRQMYVA
 LNGKGAPRRGQKTRRKNTSAHFLPMVVHS

kgf-2 synthetic cys37 Bam HI

AAAGGATCCTGCCAGGCTCTGGGTCAGGACATG

Figure 16

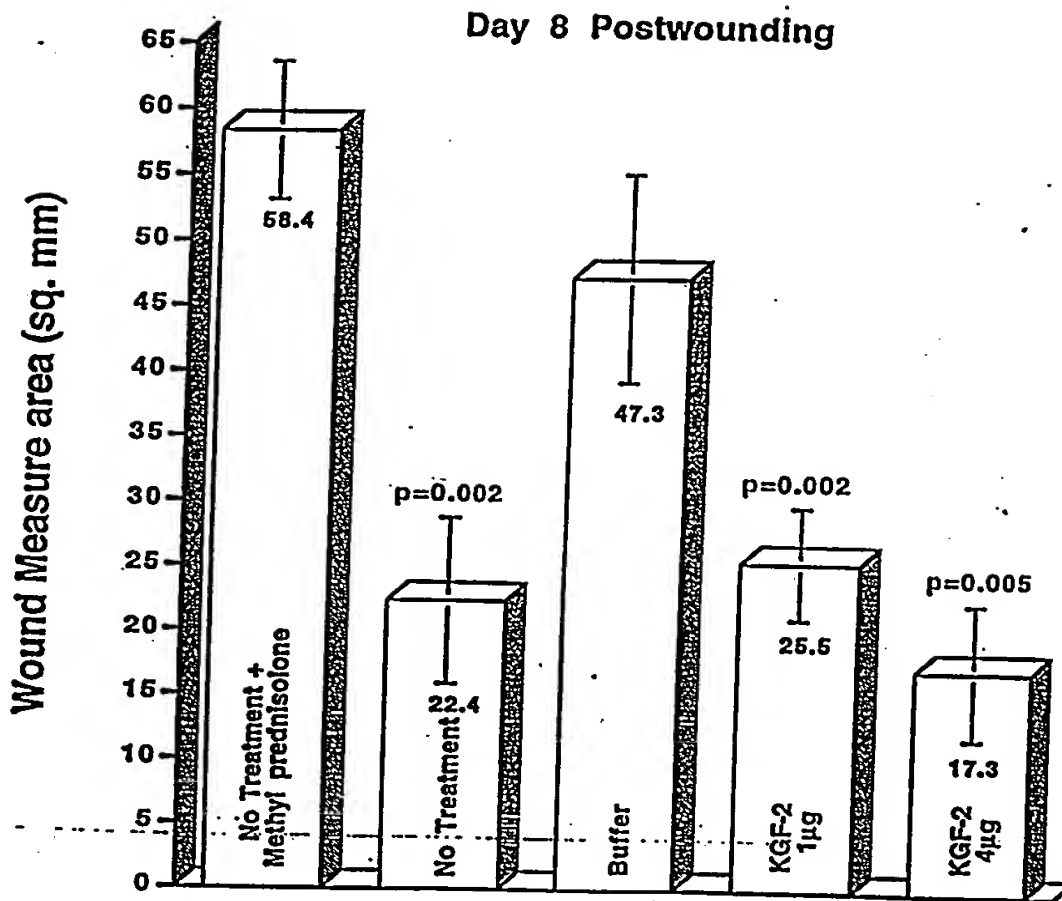


Figure 17

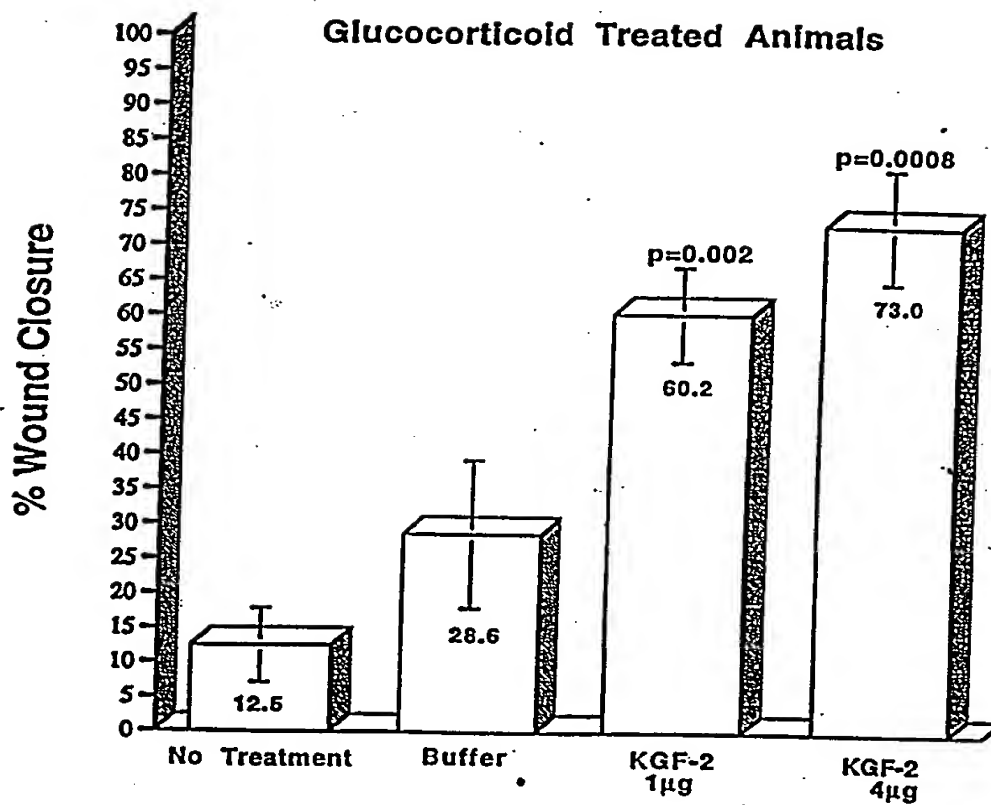


Figure 18

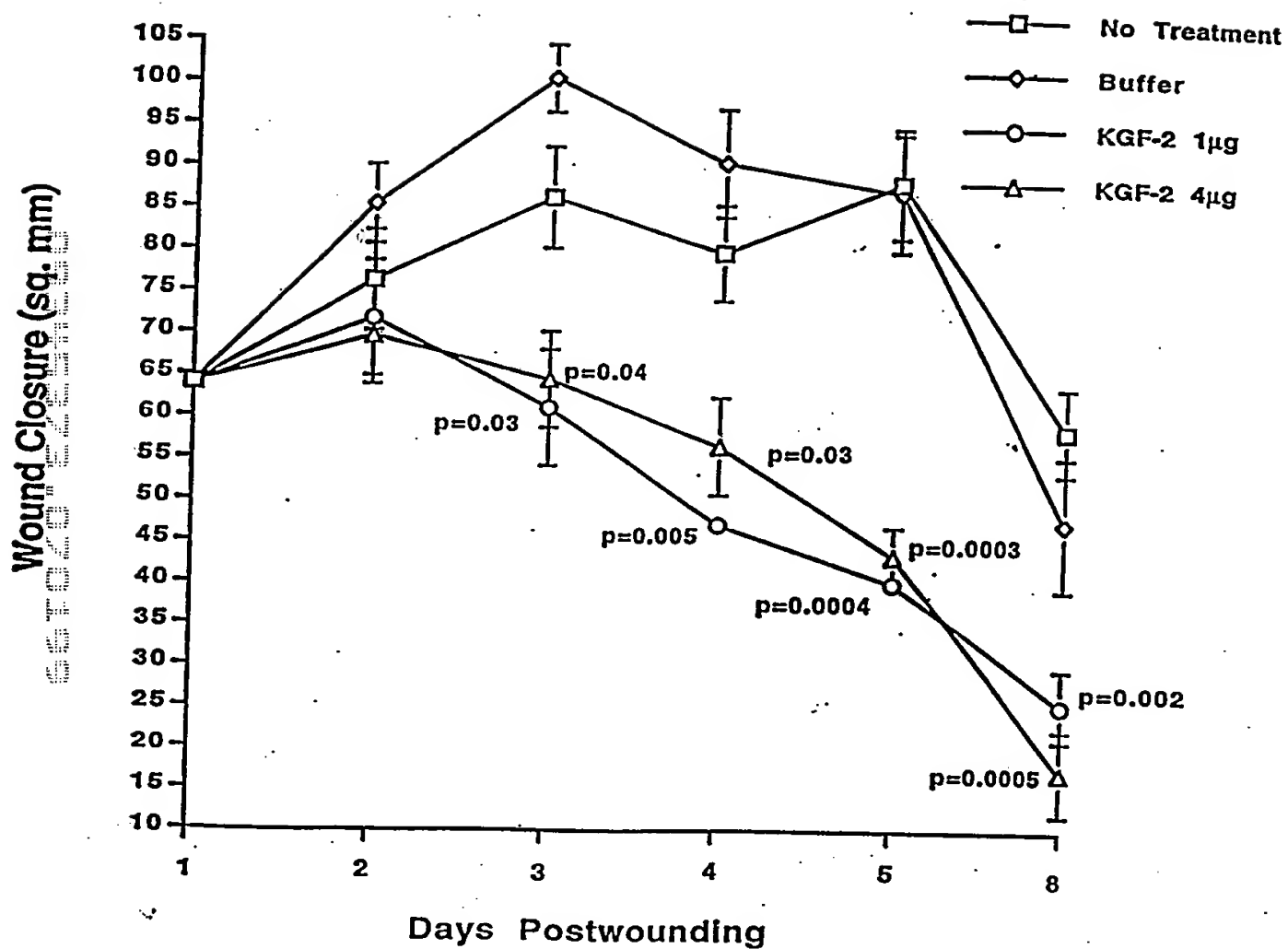


Figure 19A

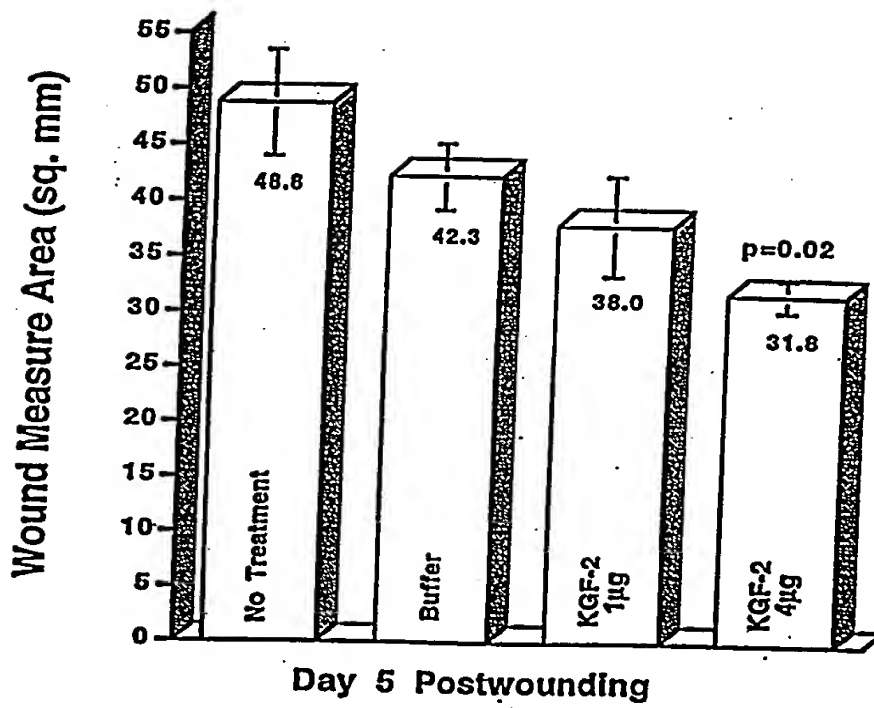


Figure 19B

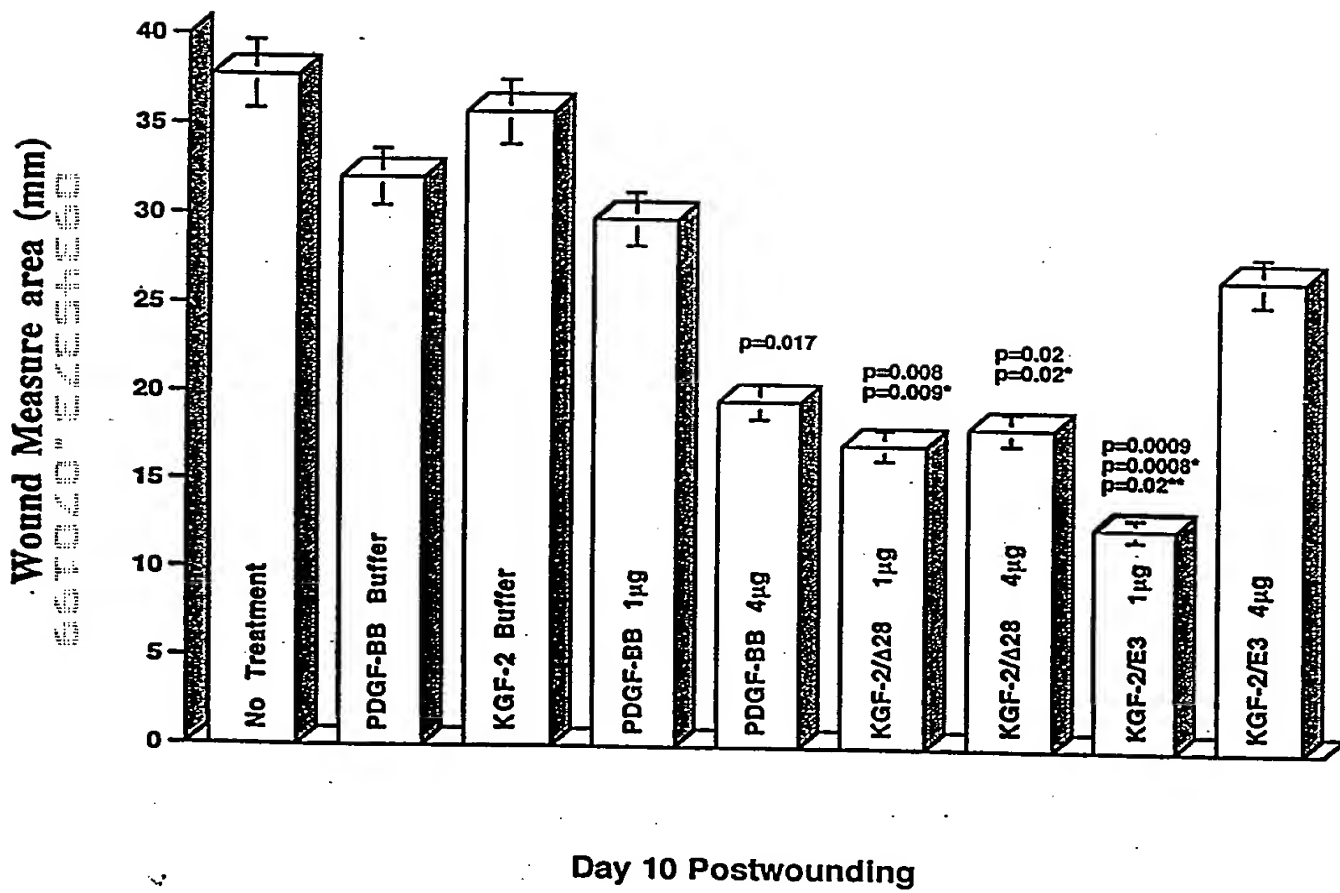


Figure 20

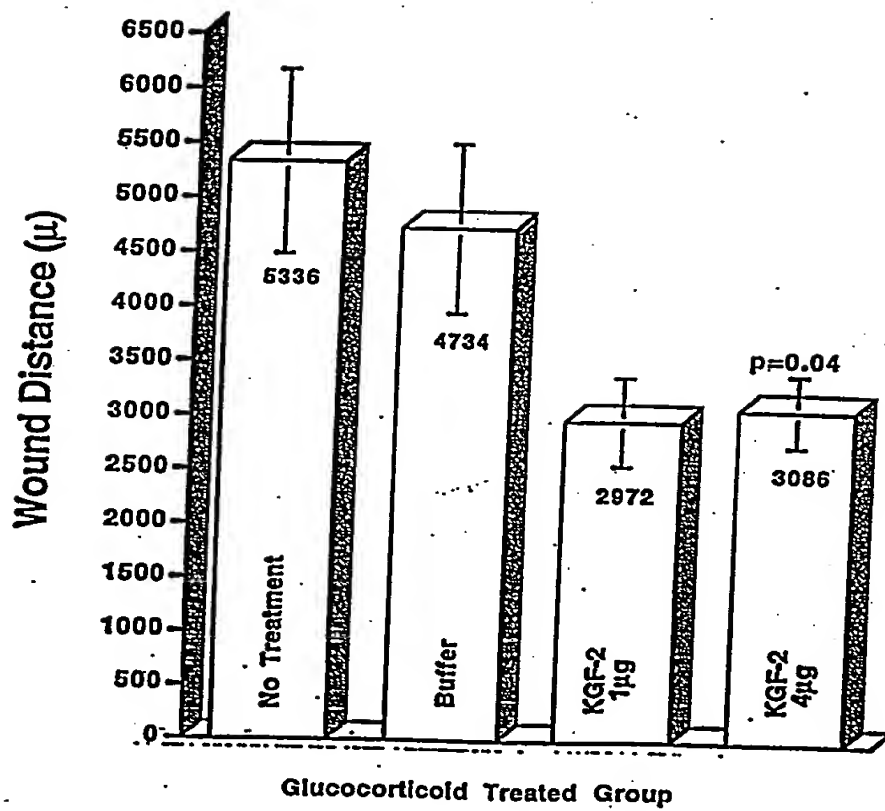


Figure 21A

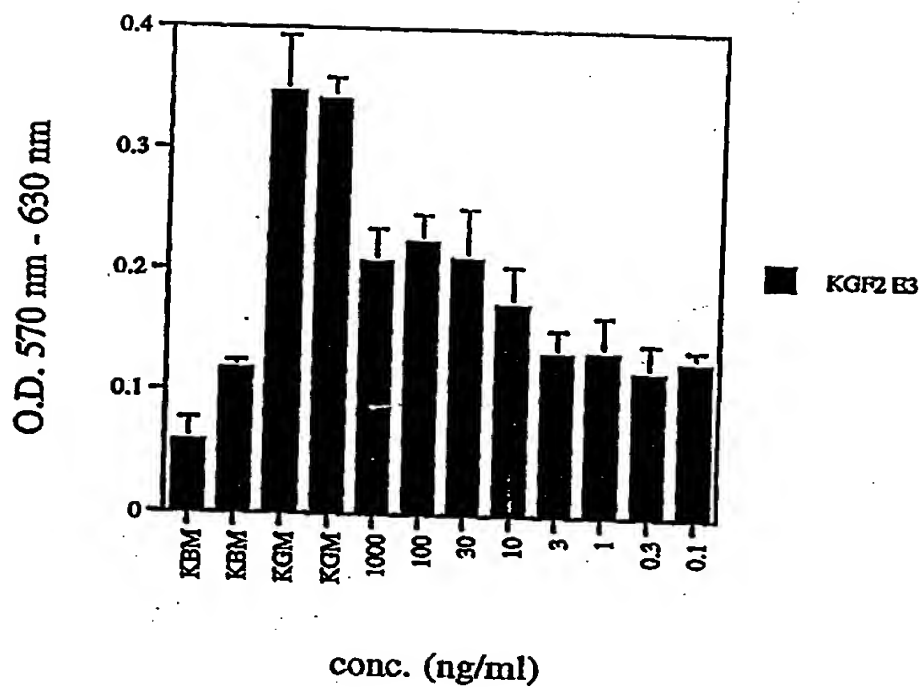


Figure 21B

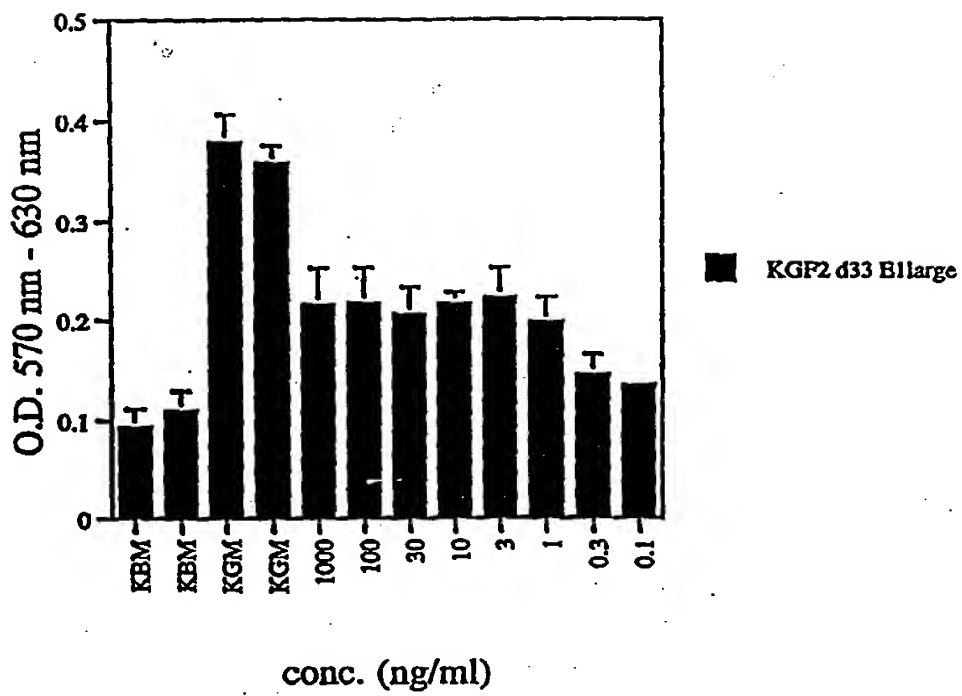


Figure 21C

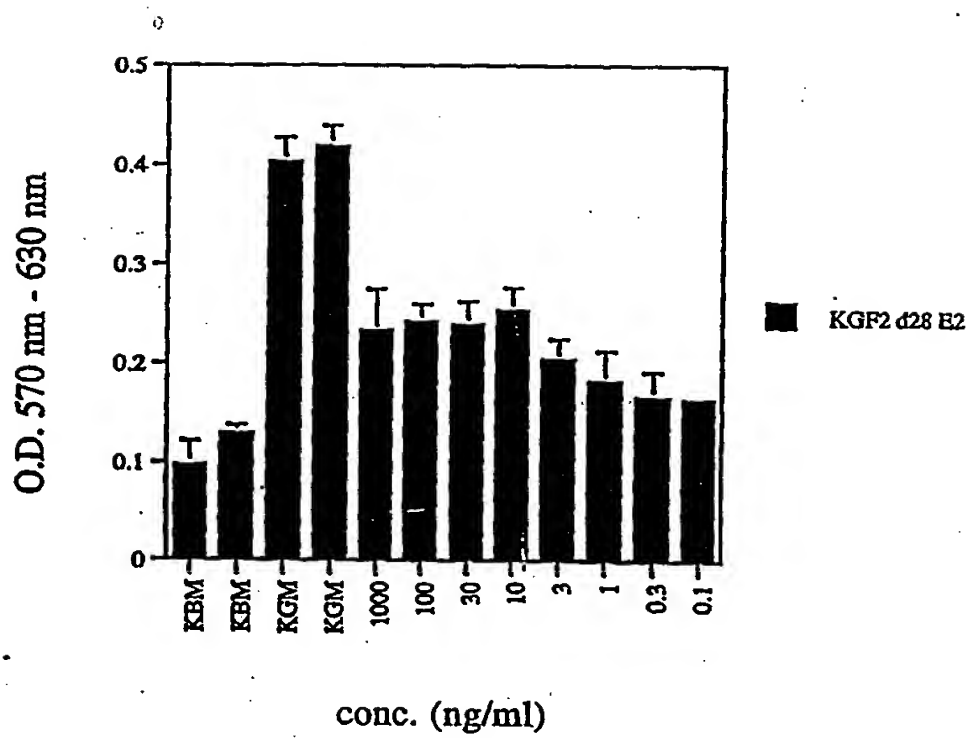


Figure 22A

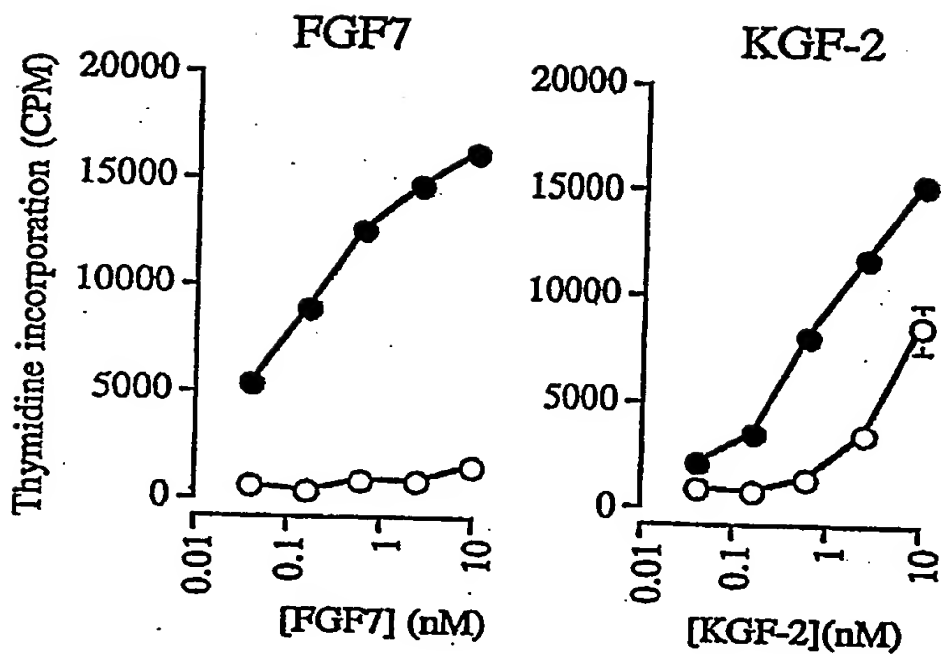


Figure 22B

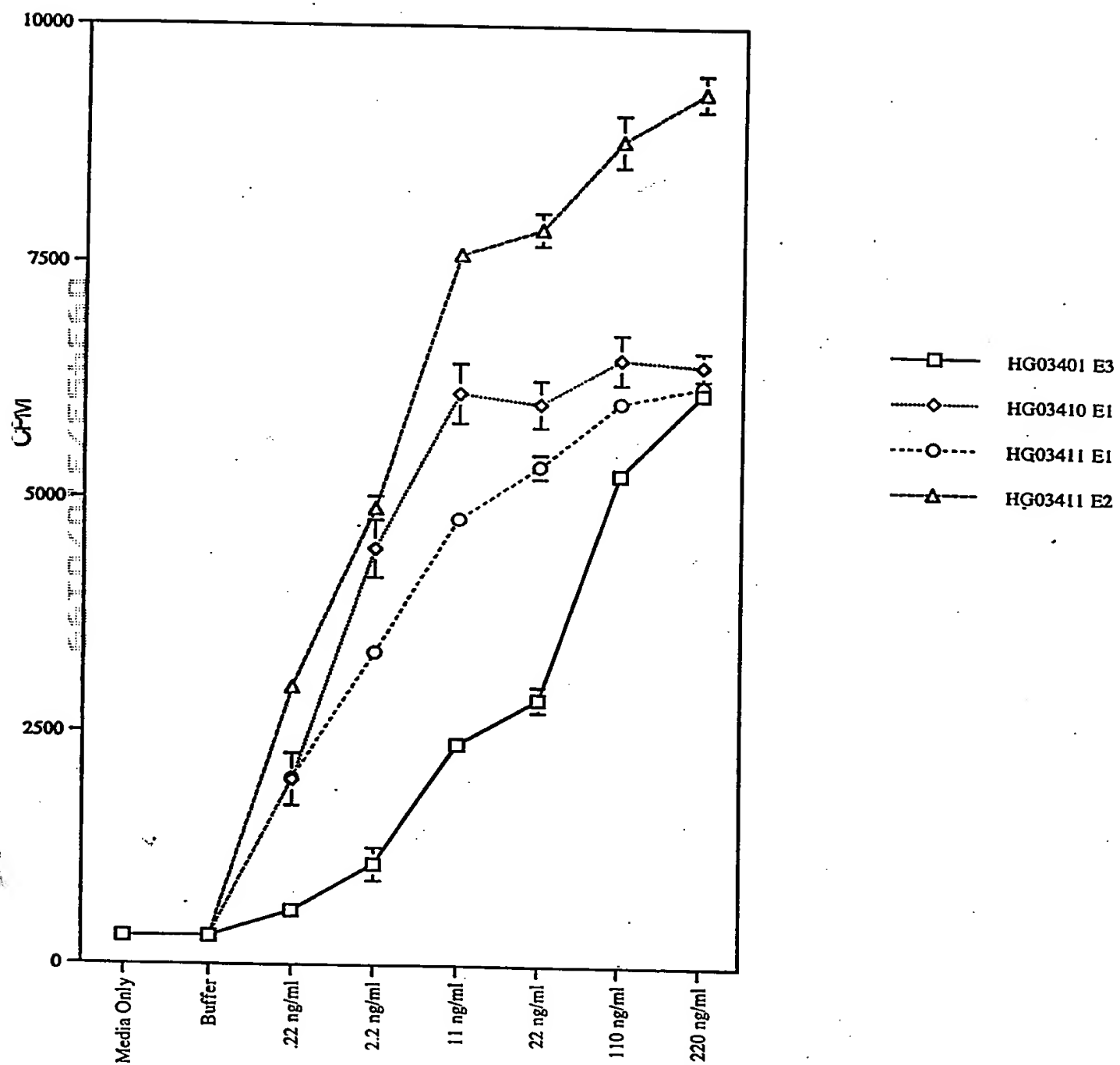


Figure 22C

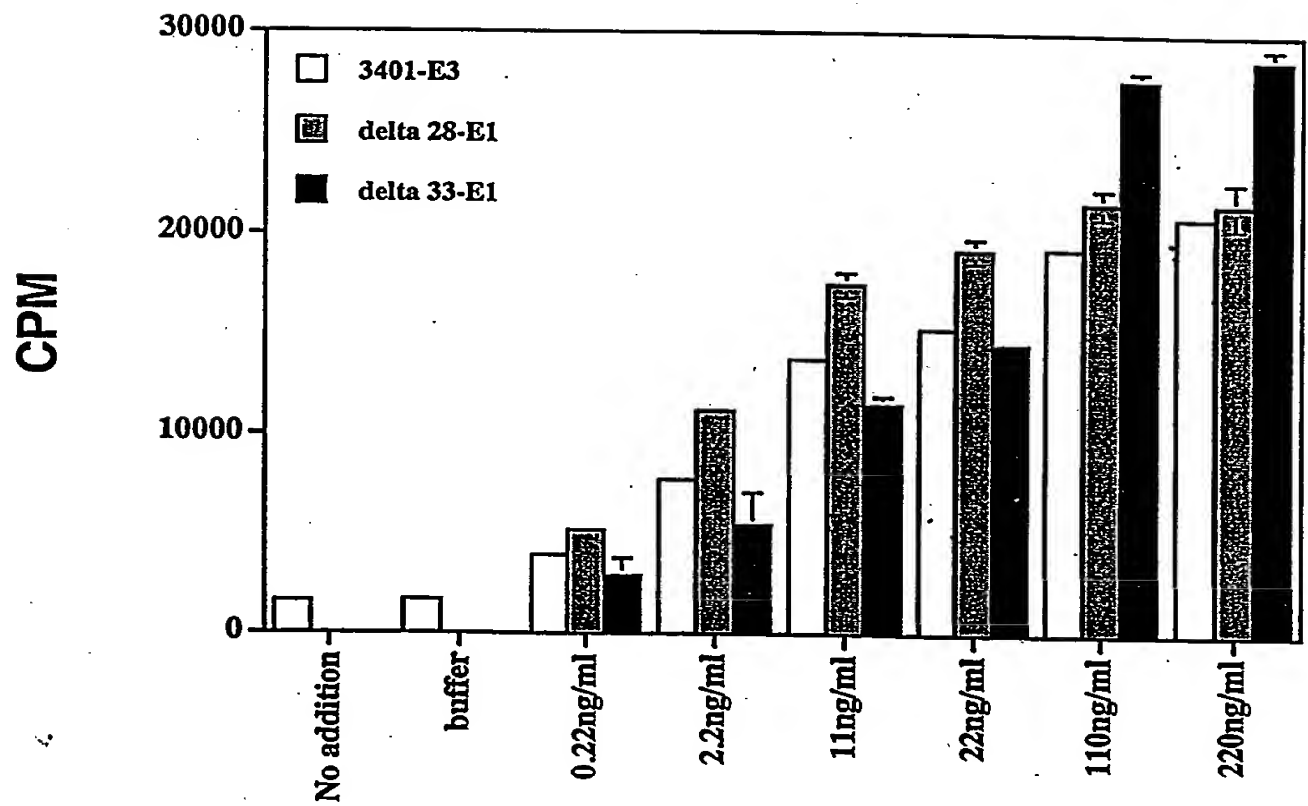


Figure 23

ATGTGGAAATGGATACTGACCCACTGCGCTTCTGCTTTCCCGCACCTGCCGGGTTGCTGC 60
 Met Trp Lys Trp Ile Leu Thr His Cys Ala Ser Ala Phe Pro His Leu Pro Gly Cys Cys

TGCTGCTGCTTCCTGCTGCTGTTCTGTTTCTTCTGTTCCGGTTACCTGCCAGGCTCTG 120
 Cys Cys Cys Phe Leu Leu Leu Phe Leu Val Ser Ser Val Pro Val Thr Cys Gln Ala Leu

GGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCCTCTTCTCTTTCTCTTCCCCG 180
 Gly Gln Asp Met Val Ser Pro Glu Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro

ACTTCCGCTGGTCGTCACGTTCTTACAACCACCTGCAGGGTGACGTTCTGTTGGCGT 240
 Thr Ser Ala Gly Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg

AAAGTGTCTCTTTACCAAATACTTCTGAAAATCGAAAAAACGGTAAAGTTTCTGGG 300
 Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser Gly

ACCAAGAAGGAGAACTGCCCCGTACAGCATCCTGGAGATAACATCAGTAGAAATCGGAGTT 360
 Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val

GTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAGAAGGGGAAACTC 420
 Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu

TATGGCTCAAAGAATTTAACAATGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGA 480
 Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly

TACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTG 540
 Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala Leu

AATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACACGAAGGAAAAACACCTCTGCTCAC 600
 Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys Asn Thr Ser Ala His

TTTCTTCCAATGGTGGTACACTCATAG 627
 Phe Leu Pro Met Val Val His Ser

Figure 24A

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCCTCT 60
Met Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu Ala Thr Asn Ser Ser Ser

TCCTCTTTCTCTTCCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCTGCAG 120
Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly Arg His Val Arg Ser Tyr Asn His Leu Gln

GGTGACGTTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCCTGAAAATCGAAAAA 180
Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys

AACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCGTACAGCATCCTGGAGATAACA 240
Asn Gly Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr

TCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATG 300
Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met

AACAAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAACAATGACTGTAAGCTGAAGGAG 360
Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu

AGGATAGAGGAAAATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGG 420
Arg Ile Glu Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg

CAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACACGAAGG 480
Gln Met Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg

AAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG 525
Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser •

Figure 24B

ATGACTTGCCAGGCACTGGGTCAAGACATGGTTTCCCCGGAAGCTACCAACAGCTCCAGCTCTAGCTTCA
TACTGAACGGTCCGTGACCCAGTTCTGTACCAAAGGGGCCTTCGATGGTTGTCGAGGTCGAGATCGAAGT 70

M T C Q A L G Q D M V S P E A T N S S S S S F
GCAGCCCATCTAGCGCAGGTCGTACGTTGCTCTTACAACCACTTACAGGGTGATGTTGTTGGCGCAA
CGTCGGGTAGATCGCGTCCAGCAGTGCAAGCGAGAATGTTGGTGAATGTCCCACTACAAGCAACCGCGTT 140

S S P S S A G R H V R S Y N H L Q G D V R W R K
ACTGTTACGCTTTACCAAGTACTTCTGAAAATCGAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAG
TGACAAGTCGAAATGGTTCATGAAGGACTTTTAGCTTTTTTTGCCATTTCAAAGACCCTGGTCTTCTCCT 210

L F S F T K Y F L K I E K N G K V S G T K K E
AACTGCCCCGTACAGCATCCTGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACA
TTGACGGGCATGTCGTAGGACCTCTATTGTAGTCATCTTTAGCCTCAACAACGGCAGTTTCGGTAATTGT 280

N C P Y S I L E I T S V E I G V V A V K A I N
GCAACTATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAACAATGACTGTAA
CGTTGATAATGAATCGGTACTTGTCTTCCCCTTTGAGATACCGAGTTTTCTTAAATTGTTACTGACATT 350

S N Y Y L A M N K K G K L Y G S K E F N N D C K
GCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGG
CGACTTCTCTCCTATCTCCTTTTACCTATGTTATGGATACGTAGTAAATTGACCGTCGTATTACCCTCC 420

L K E R I E E N G Y N T Y A S F N W Q H N G R
CAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACGAAGGAAAAACACCT
GTTACATACACCGTAACTTACCTTTTCTCGAGGTTCTCTCTGCTTTTTGTGCTTCTTTTTGTGGA 490

Q M Y V A L N G K G A P R R G Q K T R R K N T
CTGCTCACTTTCTTCCAATGGTGGTACACTCATAG
GACGAGTGAAAGAAGGTTACCACCATGTGAGTATC 525

S A H F L P M V V H S

Figure 25

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC
TCTTCCTCCTTTCTCTTCCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCT
GCAGGGTGACGTTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCTGAAAAT
CGAAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAAGTACCCGTACAGCATCC
TGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAAC
TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTAAACAA
TGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCAT
TTAACTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCT
CCAAGGAGAGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAAT
GGTGGTACACTCATAG

MTCQALGQDMVSPEATNSSSSSFSSPSSAGRHVRSYNHLQGDVRWRKLFSFTKYFLKIE
KNGKVSGTKKENCYPYSILEITSVEIGVVAVKAINSNYLAMNKKGKLYGSKEFNNDCKL
KERIEENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVVHS.

Figure 26

ATGGCTGGTCGTCACGTTTCGTTCTTACAACCACCTGCAGGGTGACGTTTCGTTGGCGT
AAACTGTTCTCTTTCACCAAATACTTCCTGAAAATCGAAAAAACGTTAAAGTTTCT
GGGACCAAGAAGGAGAACTGCCCGTACAGCATCCTGGAGATAACATCAGTAGAAAT
CGGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAGAA
GGGGAAACTCTATGGCTCAAAGAATTTAACAATGACTGTAAGCTGAAGGAGAGGA
TAGAGGAAAATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGG
CAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACAC
GAAGGAAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MAGRHVRSYNHLQGDVRWRKLFSTKYFLKIEKNGKVS GTKKENC PYSILEITSVEIGV
VAVKAINS NYYLAMNKKGKLYGSKEFNNDCKLKERIEBENG YNTYASFNWQHNGRQMY
VALNGKGAPRRGQKTRRKNTSAHFLPMVVHS.

Figure 27

ATGGTTCGTTGGCGTAAACTGTTCTTTACCAAATACTTCCTGAAAATCGAAAAA
AACGGTAAAGTTTCTGGGACCAAGAAGGAGAAGCTGCCCCGTACAGCATCCTGGAGAT
AACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTT
AGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTAAACAATGACTGTA
AGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCATTAACTGG
CAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAG
AGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTAC
ACTCATAG

MVRWRKLFSTKYFLKIEKNGKVSGTKKENCPYSILEITSVEIGVVAVKAINSNYLAM
NKKGKLYGSKEFNNDCKLKERIEENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQ
KTRRKNTSAHFLPMVVHS.

Figure 28

ATGGAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCGTACAGCAT
CCTGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCA
ACTATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTTAAC
AATGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATC
ATTTAACTGGCAGCATAATGGGAGGGCAAATGTATGTGGCATTGAATGGAAAAGGAG
CTCCAAGGAGAGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCA
ATGGGTGGTACACTCATAG

MEKNGKVS~~GT~~KKENCPYSILEITSVEIGVVAVKAINS~~NY~~YLAMNKKGKLYGSKBFN~~ND~~C
KLKERIEENG~~YNT~~YASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVVH
S.

Figure 29

ATGGAGAACTGCCCCGTACAGCATCCTGGAGATAACATCAGTAGAAATCGGAGTTGT
TGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAGAAGGGGAAAC
TCTATGGCTCAAAAGAATTTAACAATGACTGTAAGCTGAAGGAGAGGATAGAGGAA
AATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGGCAAATGTA
TGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACACGAAGGAAA
AACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MENCPYSILEITSVEIGVVAVKAINSNYLAMNKKGKLYGSKEFNNDCKLKERIEENGY
NIYASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVVHS.

Figure 30

ATGGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAGAAGGGGAAACT
CTATGGCTCAAAAGAATTTAACAATGACTGTAAGCTGAAGGAGAGGATAGAGGAAA
ATGGATAACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGGCAAATGTATG
TGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACACGAAGGAAAAA
CACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MVKAINSNYLAMNKKGKLYGSKEFNNDCKLKERIBENGYNTYASFNWQHNGRQMY
VALNGKGAPRRGQKTRRKNTSAHFLPMVVHS.

5'-GTGTTTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG-3'

Figure 31

ATGGGGAAACTCTATGGCTCAAAAGAATTTAACAATGACTGTAAGCTGAAGGAGAG
GATAGAGGAAAATGGATACAATACCTATGCATCATTTAAGTGGCAGCATAATGGGA
GGCAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAAC
ACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MGKLYGSKEFNNDCKLKERIBENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQKT
RRKNTSAHFLPMVVHS.

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Figure 32

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC
TCTTCCTCTTTCTCTTCCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCT
GCAGGGTGACGTTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCCTGAAAAT
CGAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAAGTACGCGTACAGCATCC
TGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAAC
TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTAAACAA
TGACTGTAAGCTGAAG

MTQALGQDMVSPEATNSSSSSFSSPSSAGRHVRSYNHLQGDVRWRKLFSTKYFLKIE
KNGKVSGETKENCPYSILEITSVEIGVVAVKAINSNYLAMNKKGKLYGSKEFNNDCKL
K

Figure 33

ATGGCTGGTCGTCACGTTTCGTTCTTACAACCACCTGCAGGGTGACGTTTCGTTGGCGT
AAACTGTTCTCTTTACCAAATACTTCCTGAAAATCGAAAAAACGGTAAAGTTTCT
GGGACCAAGAAGGAGAAGTGGCCGTACAGCATCCTGGAGATAACATCAGTAGAAAT
CGGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAGAA
GGGGAAACTCTATGGCTCAAAGAATTTAACAATGACTGTAAGCTGAAG

MAGRHVRSYNHLQGDVRWRKLFSTKYFLKIEKNGKVSGTKKENCPYSILEITSVEIGV
VAVKAINSNYLAMNKKGKLYGSKEFNNDCKLK

Figure 34

: C-37 To Ser

ATGACCTCTCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC
TCTTCCTCTTTCTCTTCCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCT
GCAGGGTGACGTTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCTGAAAAT
CGAAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCCGTACAGCATCC
TGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAAC
TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTAAACAA
TGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCAT
TTAACTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCT
CCAAGGAGAGGACAGAAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAAT
GGTGGTACACTCATAG

Figure 35

C-106 To Ser

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC
TCTTCCTCTTTCTCTTCCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCT
GCAGGGTGACGTTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCCTGAAAAT
CGAAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTCTCCGTACAGCATCC
TGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAAC
TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTTAACAA
TGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATAACAATACCTATGCATCAT
TTAACTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCT
CCAAGGAGAGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAAT
GGTGGTACACTCATAG

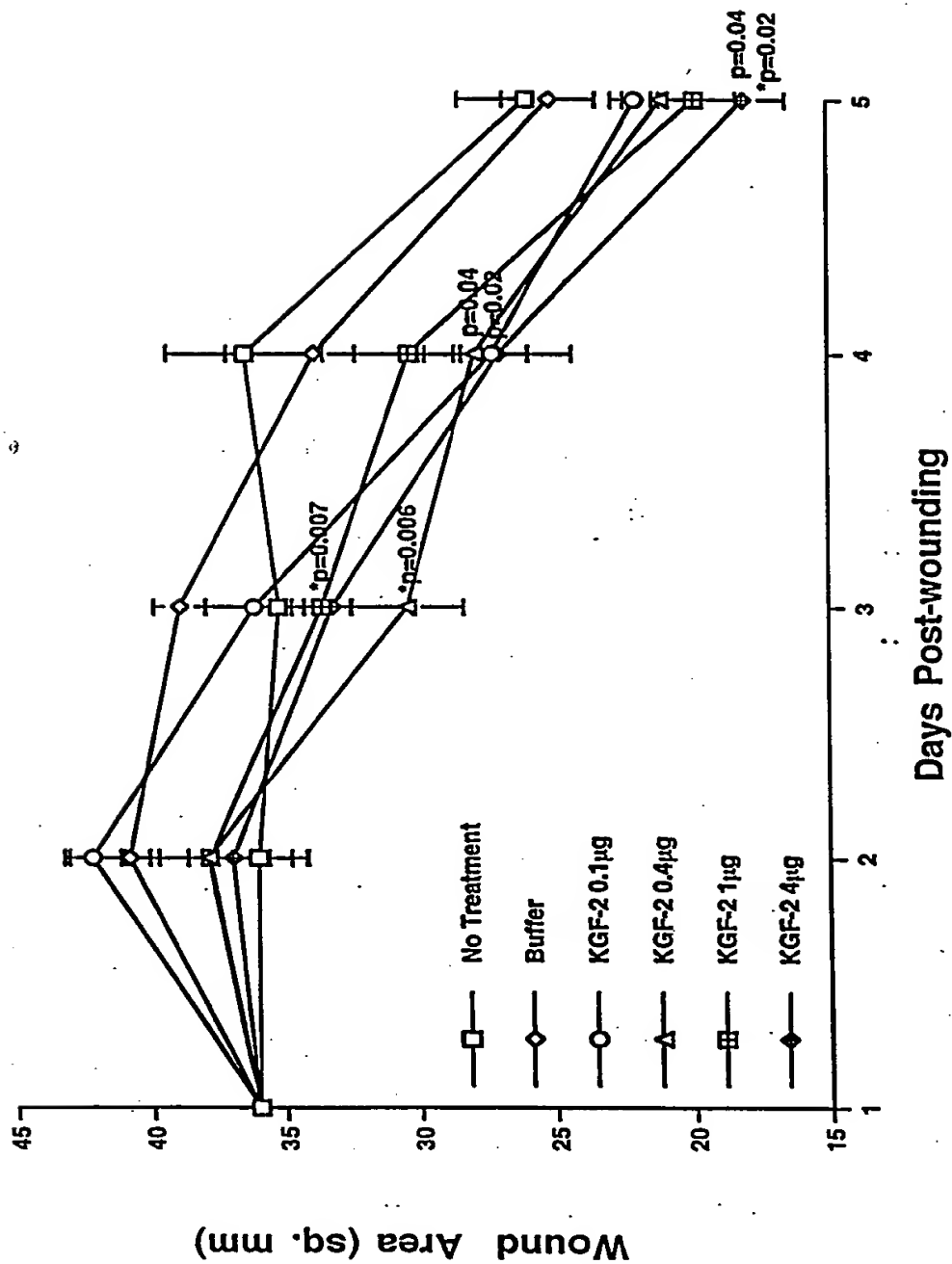


Figure 37

Effect of KGF-2 Δ33 on Normal Wound Healing Rat Model

Treatment Groups	Wound Size (mm)	%Wound Closure	Histological Score	Re-epith. (μm)	BrdU Score
No Treatment	25.9 ± 2.5	58.8 ± 3.7	6.8 ± 0.2	1142 ± 141	3.8 ± 0.4
Buffer	25.1 ± 1.7	60.2 ± 2.6	6.4 ± 0.2	923 ± 61	5.0 ± 0.4
KGF-2/Δ33 (0.1μg)	22.0 ± 0.9	65 ± 1.4	6.8 ± 0.2	1275 ± 148	4.6 ± 0.7
KGF-2/Δ33 (0.4 μg)	21.1 ± 1.4	68.4 ± 2.4	8.0 ± 0.5 p=0.0445*	1310 ± 182	4.2 ± 0.7
KGF-2/Δ33 (1.0μg)	19.9 ± 1.5	66.2 ± 2.1	8.4 ± 0.4 p=0.0159* p=0.0053†	1389 ± 115 p=0.0074†	3.3 ± 0.25 p=0.0217†
KGF-2/Δ33 (4.0μg)	18.1 ± 1.6 p=0.0398* p=0.0200†	71.2 ± 2.6 p=0.0367* p=0.0217†	8.5 ± 0.3 p=0.0047* p=0.0445†	1220 ± 89 p=0.0254†	5.3 ± 0.9

Figure 38

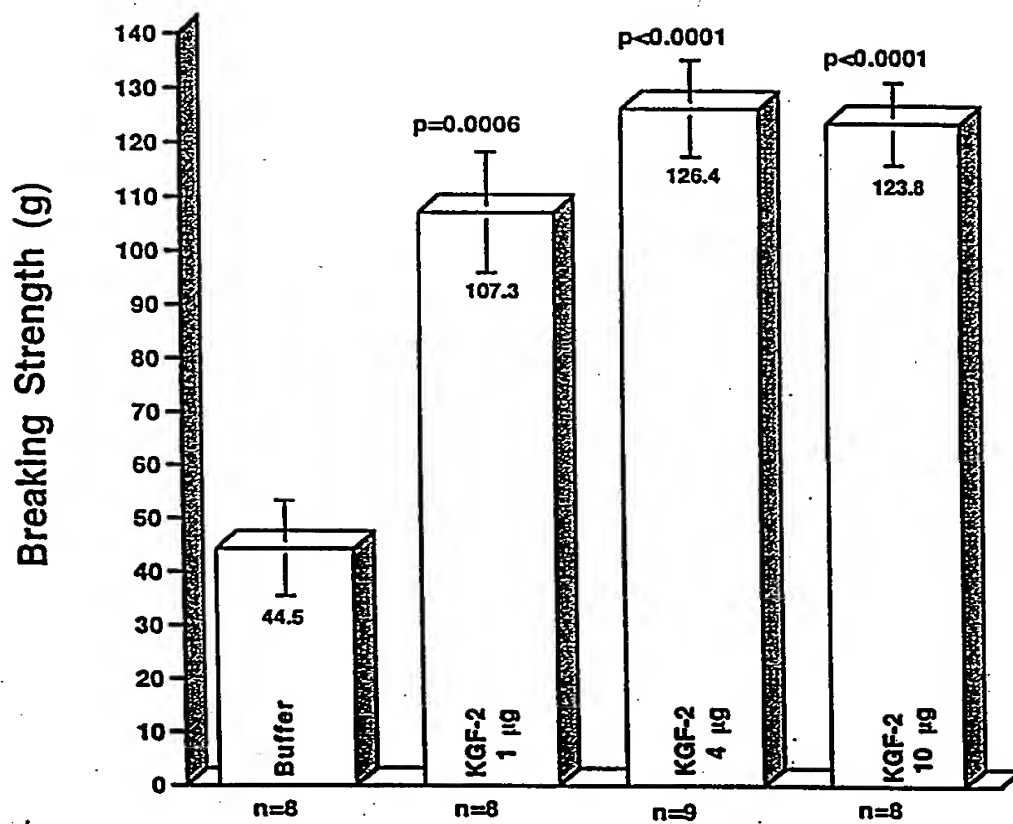


Figure 39

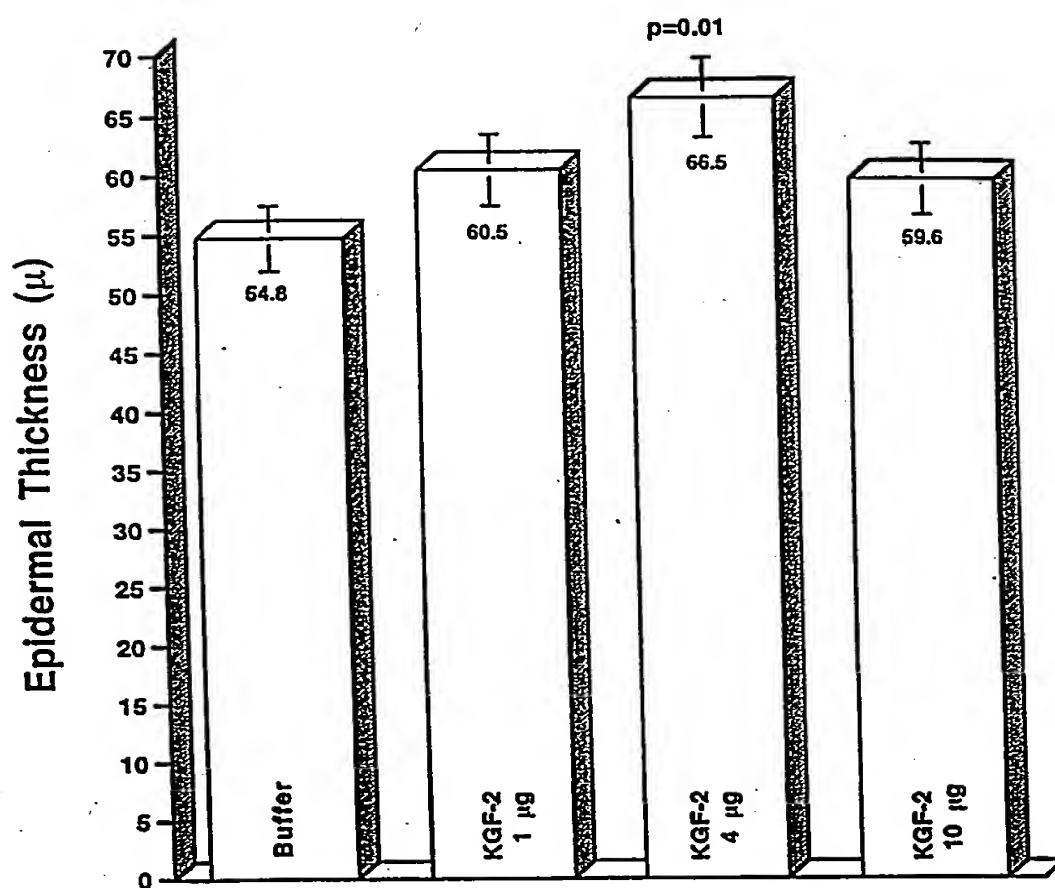


Figure 40

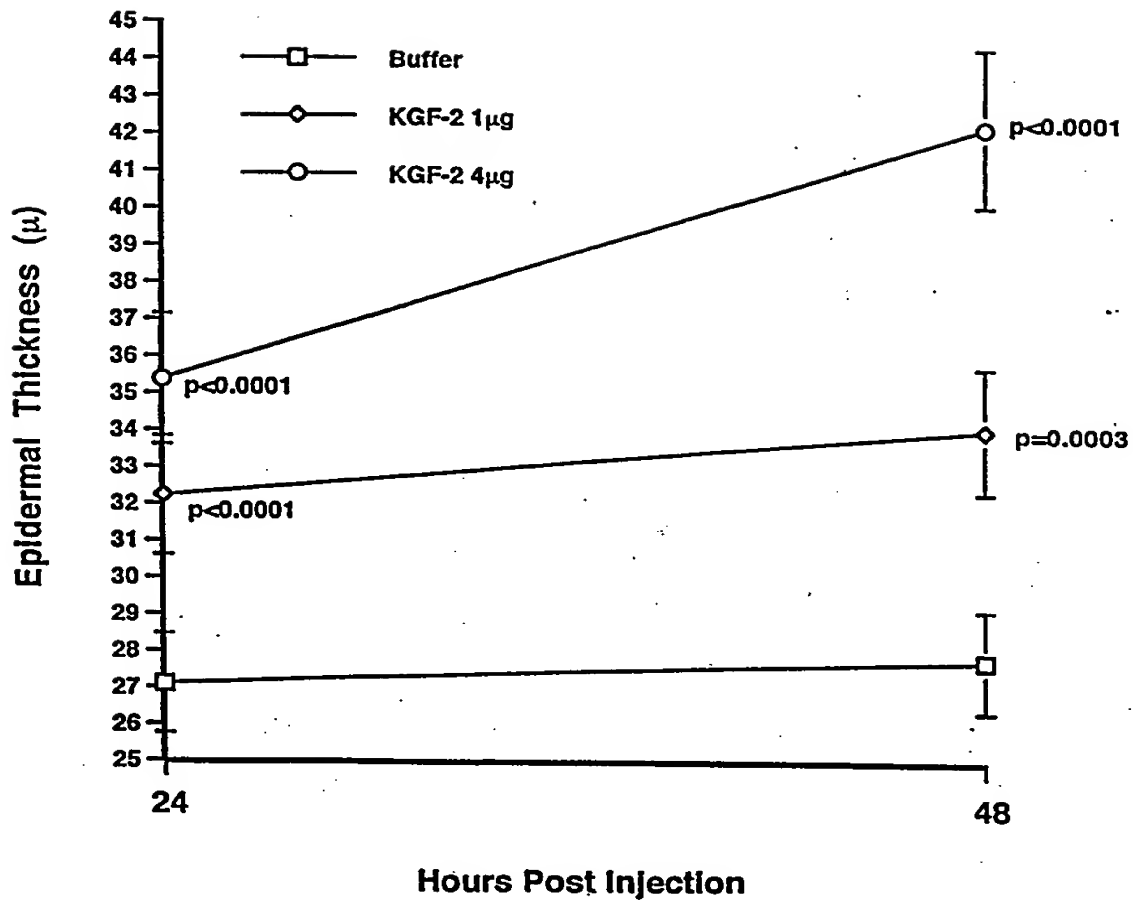


Figure 41

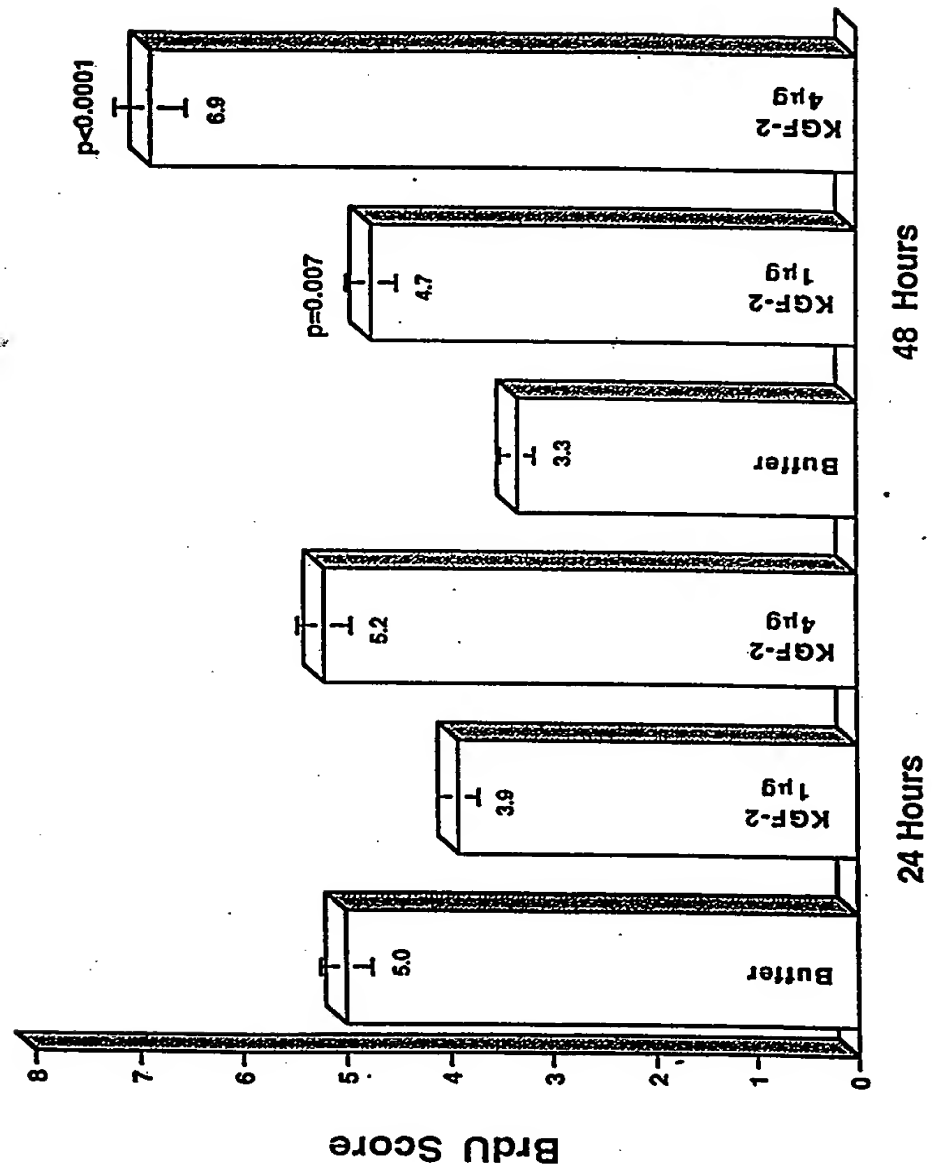
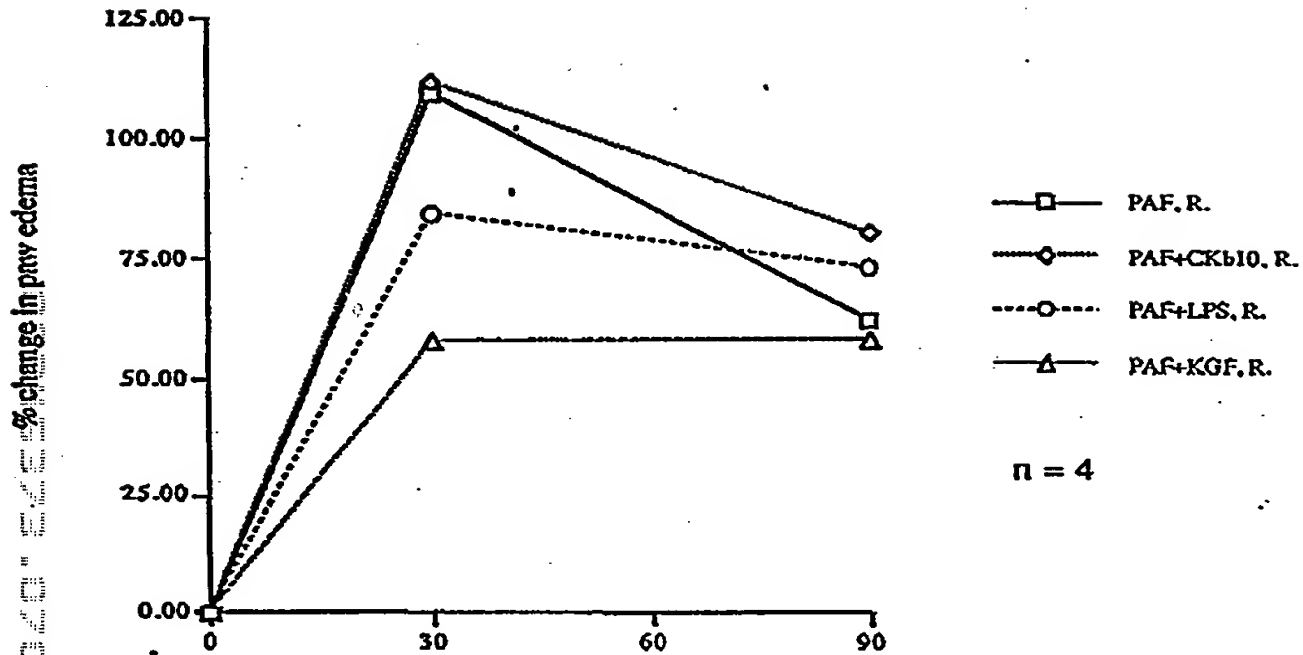
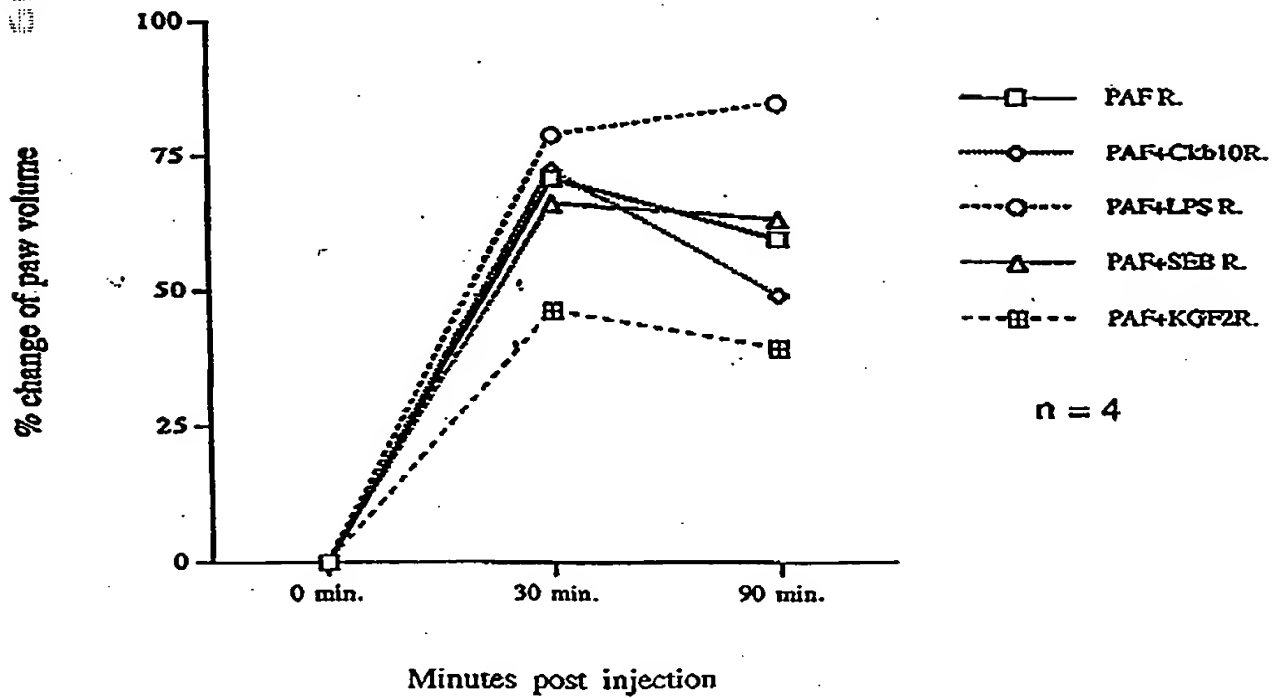


Figure 42

No.1



No.2



Effect of KGF-2 $\Delta 33$ on PAF-induced paw edema in Lewis rats

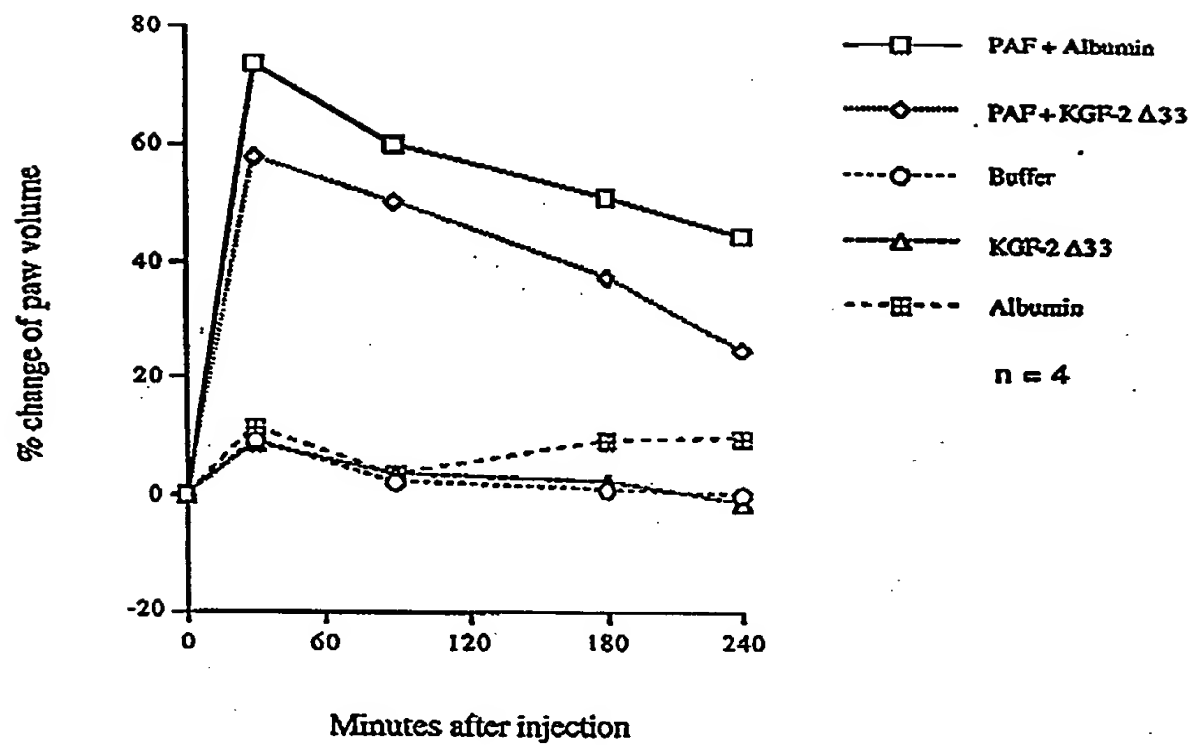


Figure 43

Effect of KGF-2 $\Delta 33$ on Survival of Whole Body Irradiated Balb/c Mice

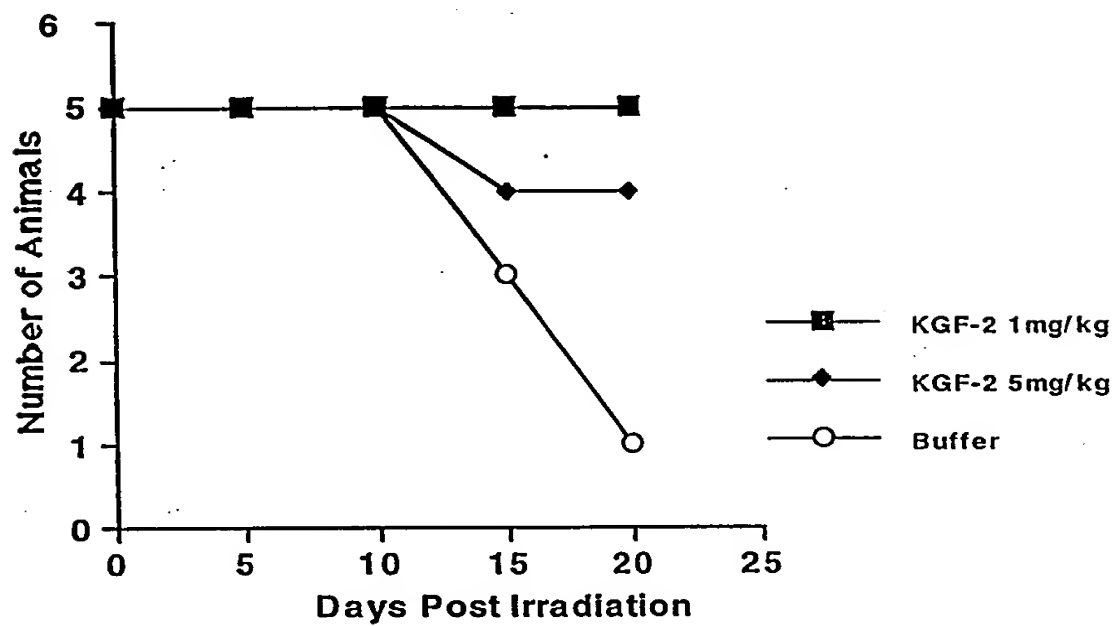


Figure 44

Effect of KGF-2 $\Delta 33$ on Body Weight of Irradiated Mice

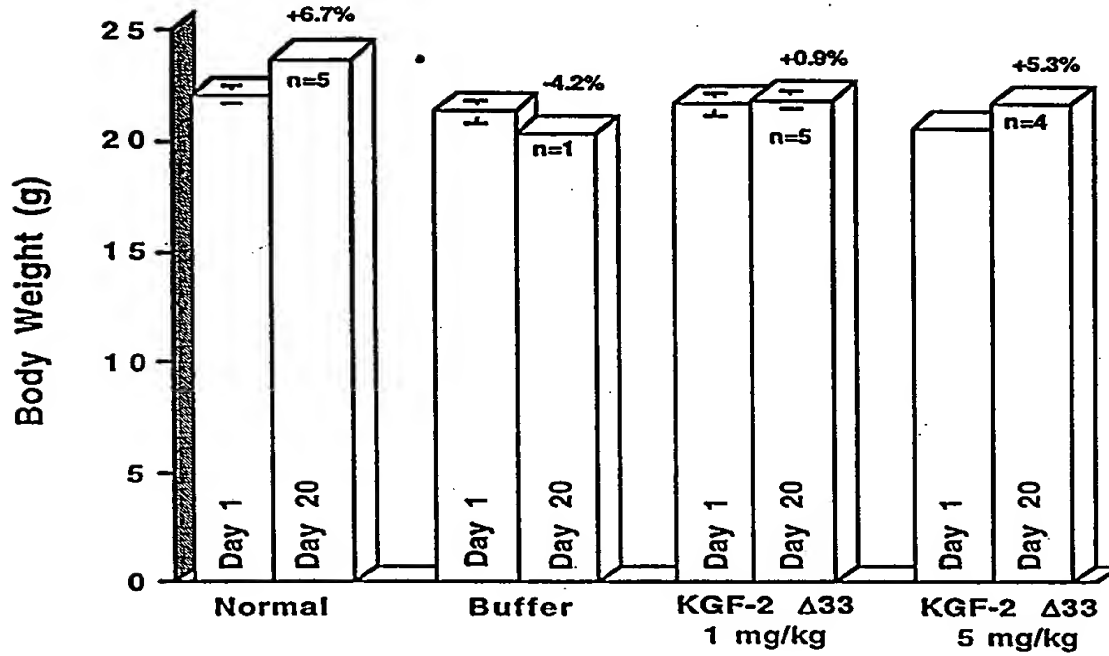


Figure 45

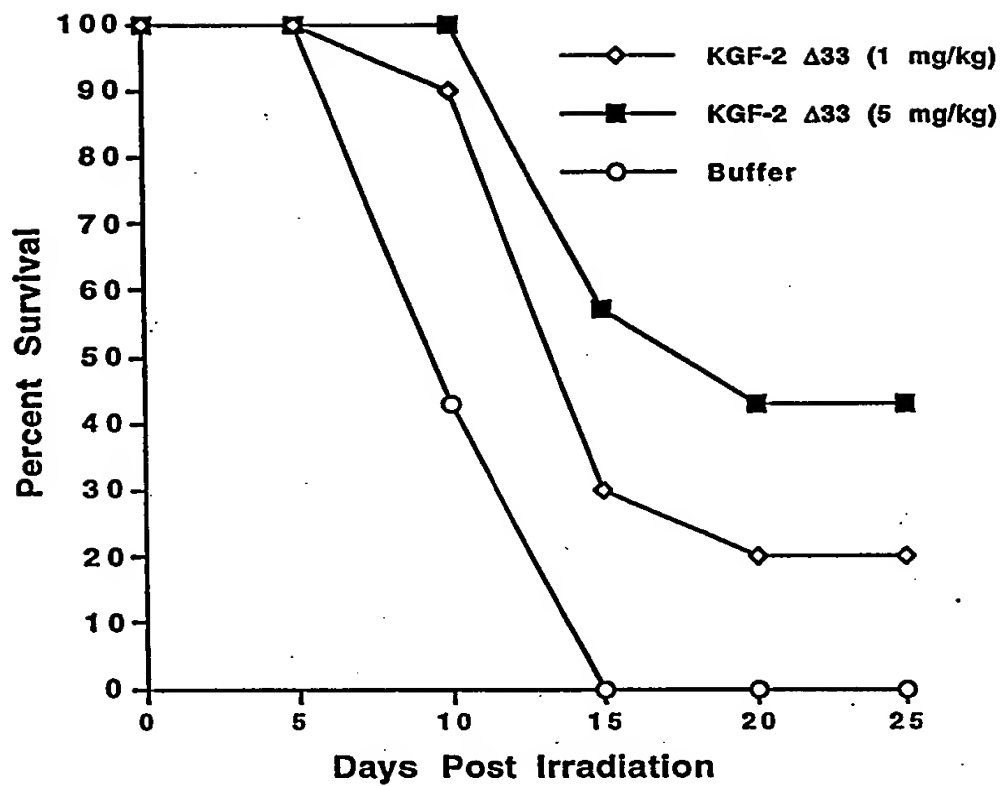


Figure 46

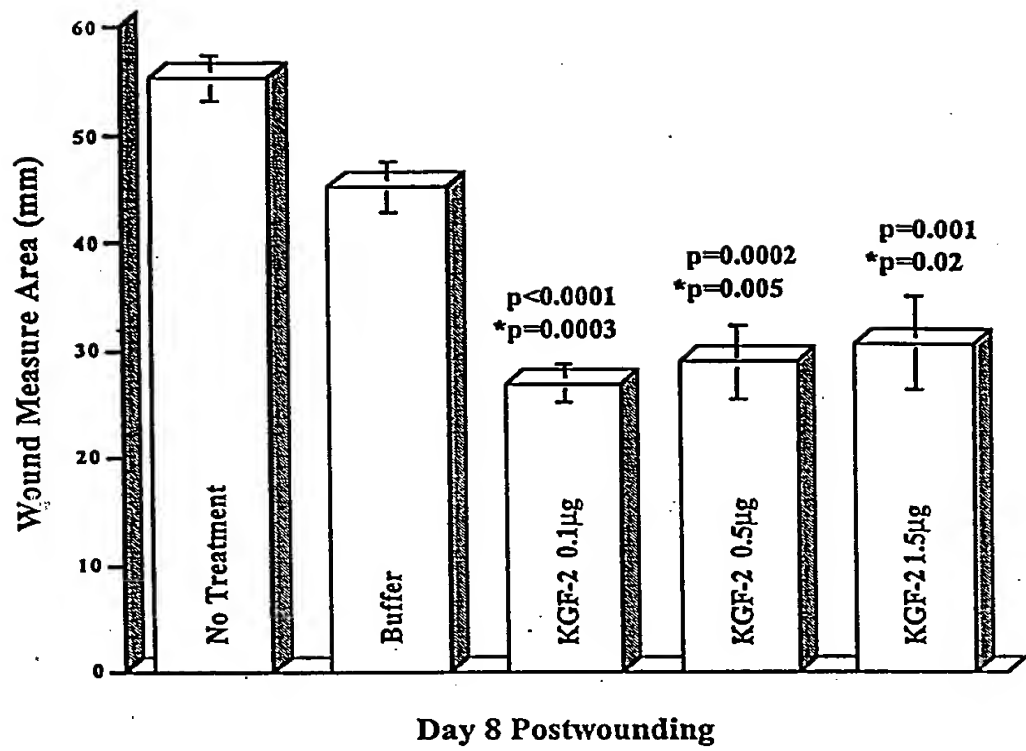
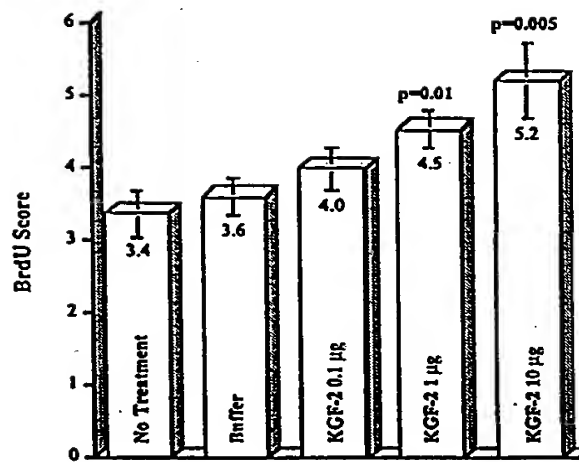


Figure 47

Figure 48



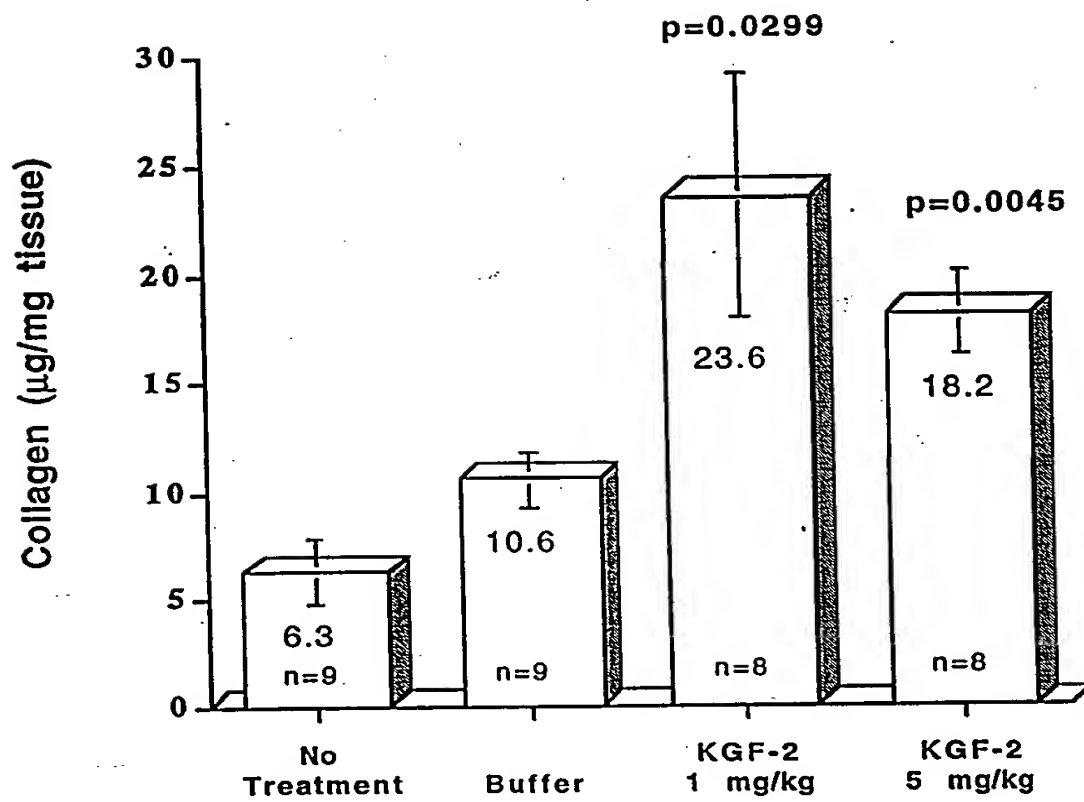


Figure 49

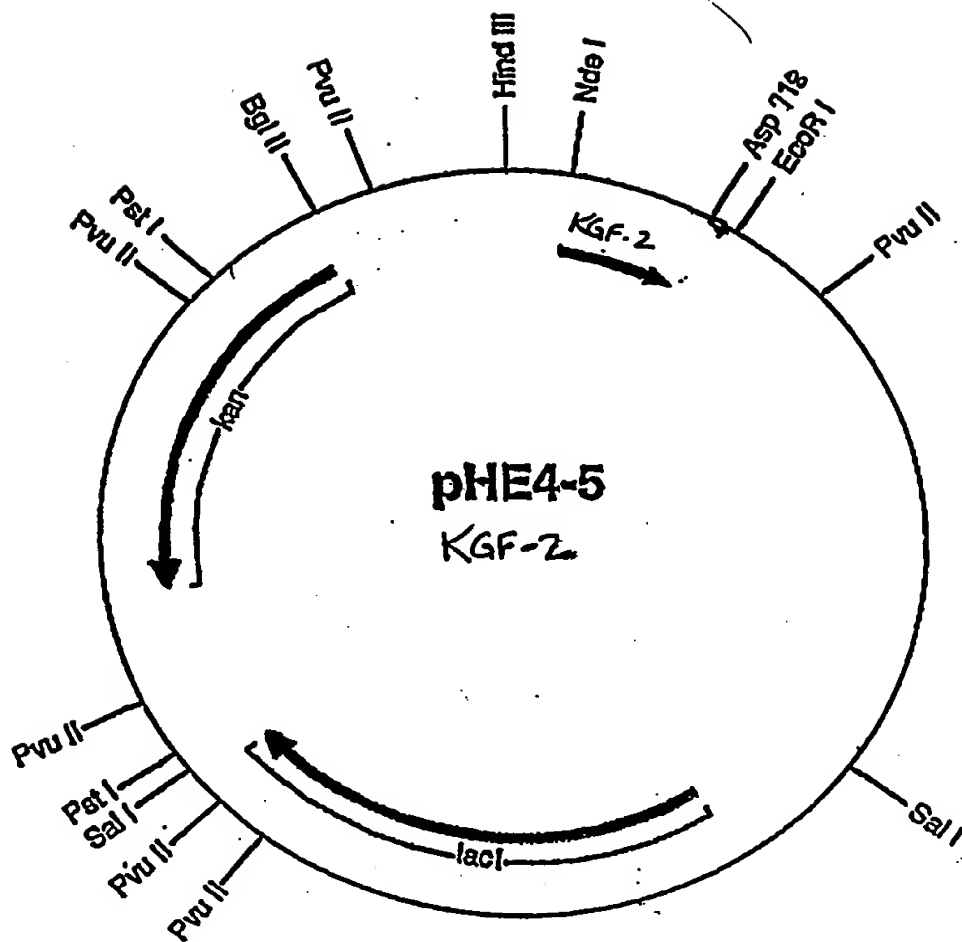


FIGURE 50

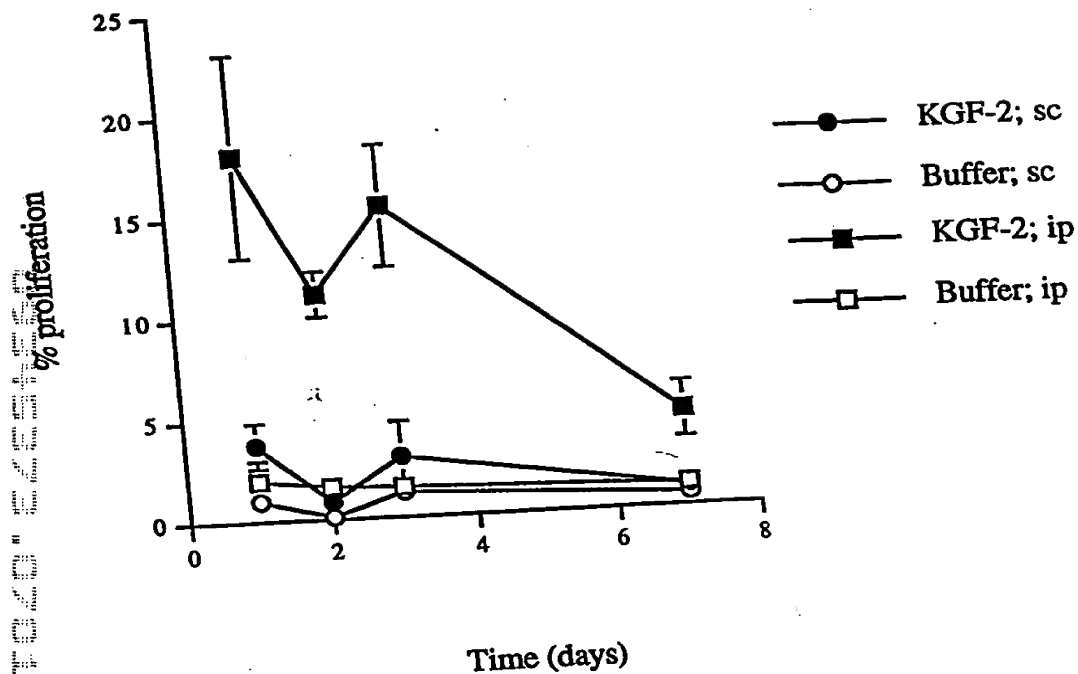


FIGURE 52

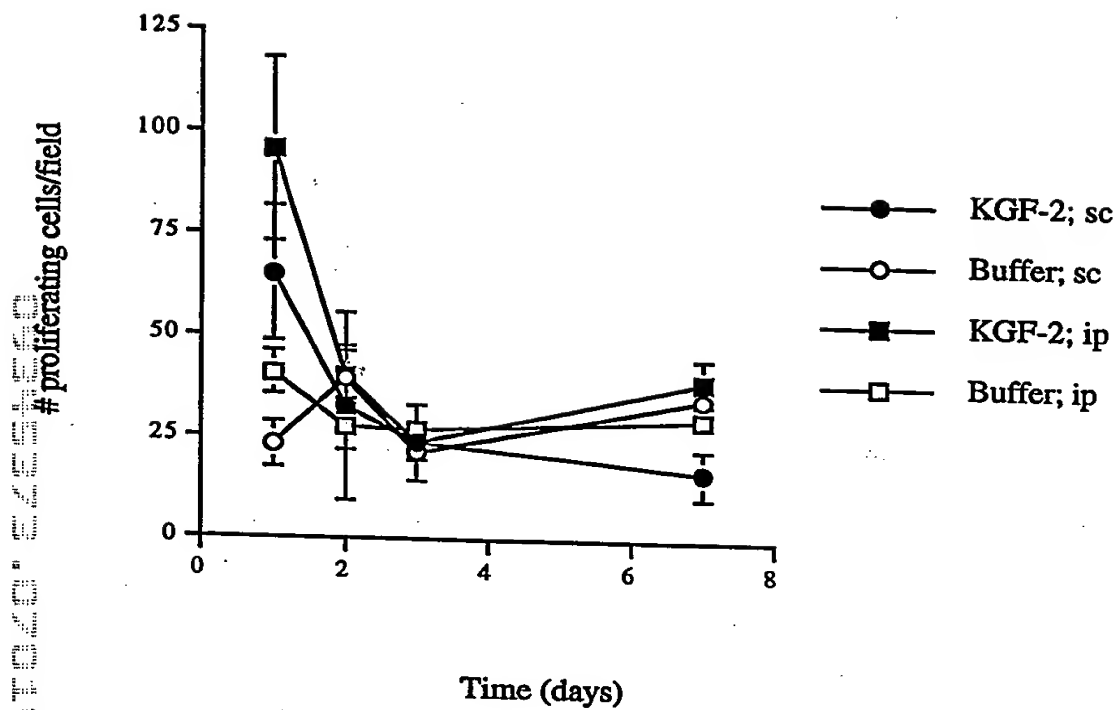


FIGURE 53

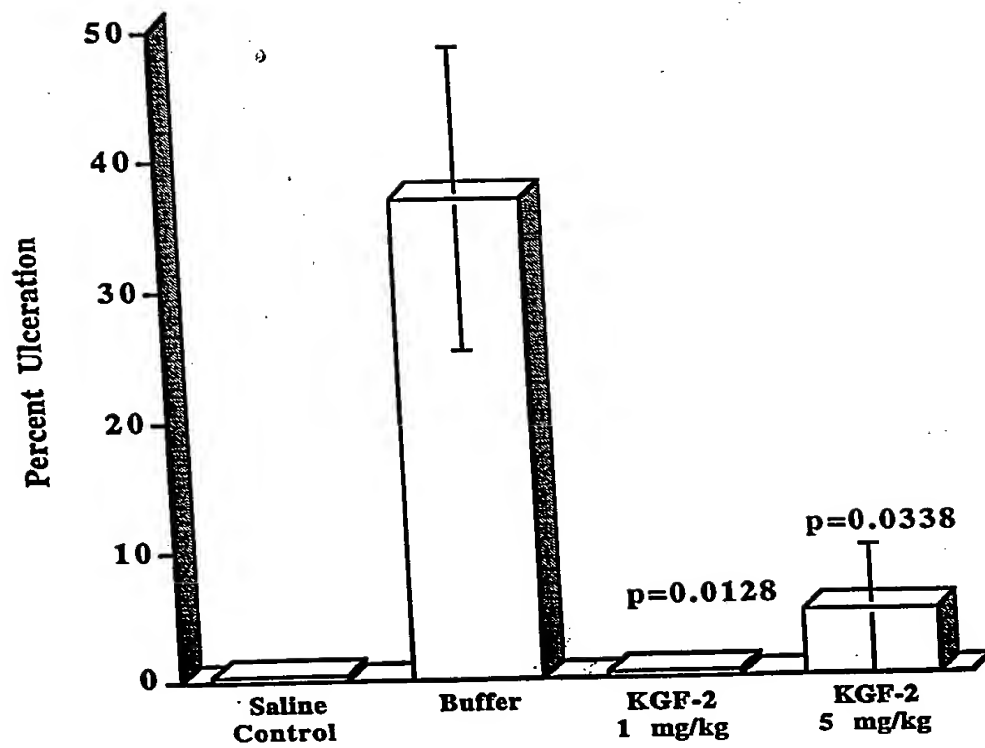


FIGURE 54

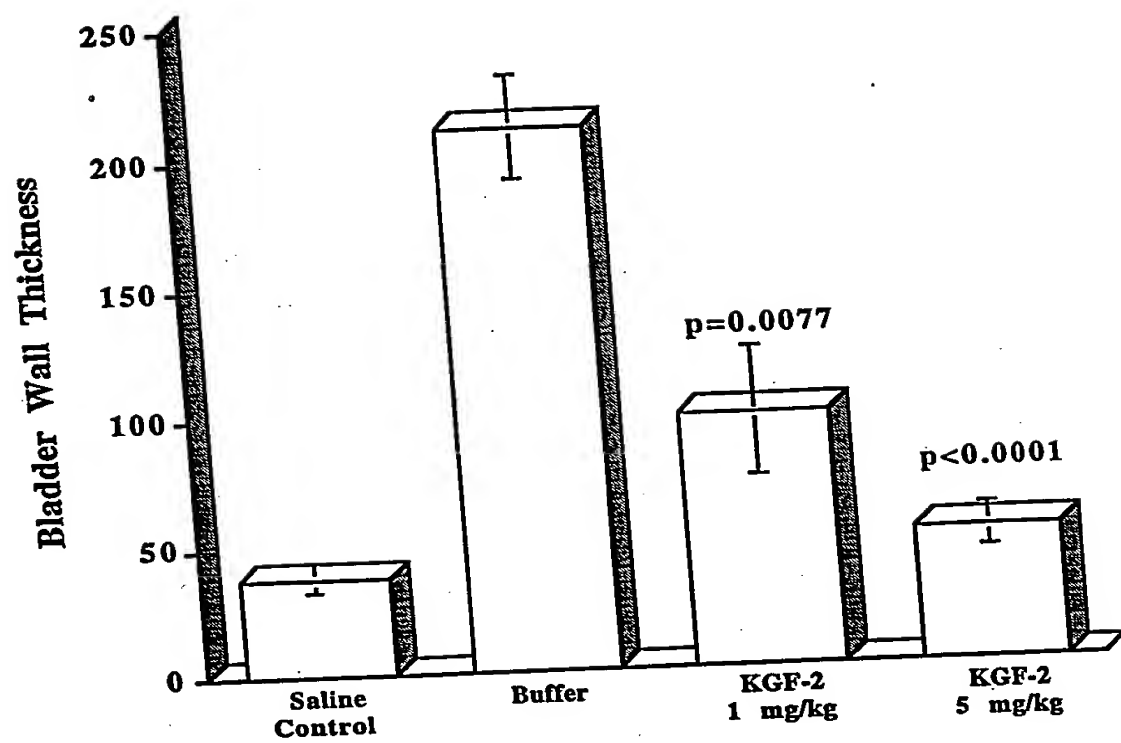


FIGURE 55

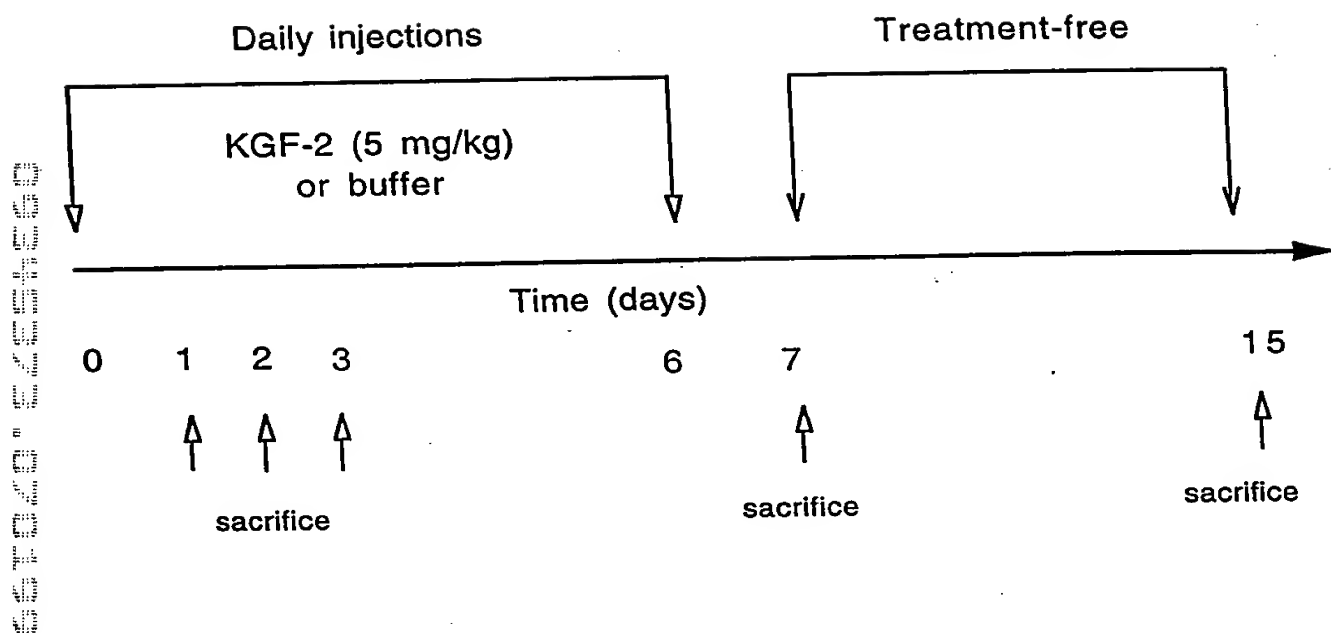


FIGURE 56

Proliferation of hepatocytes following systemic administration of KGF-2

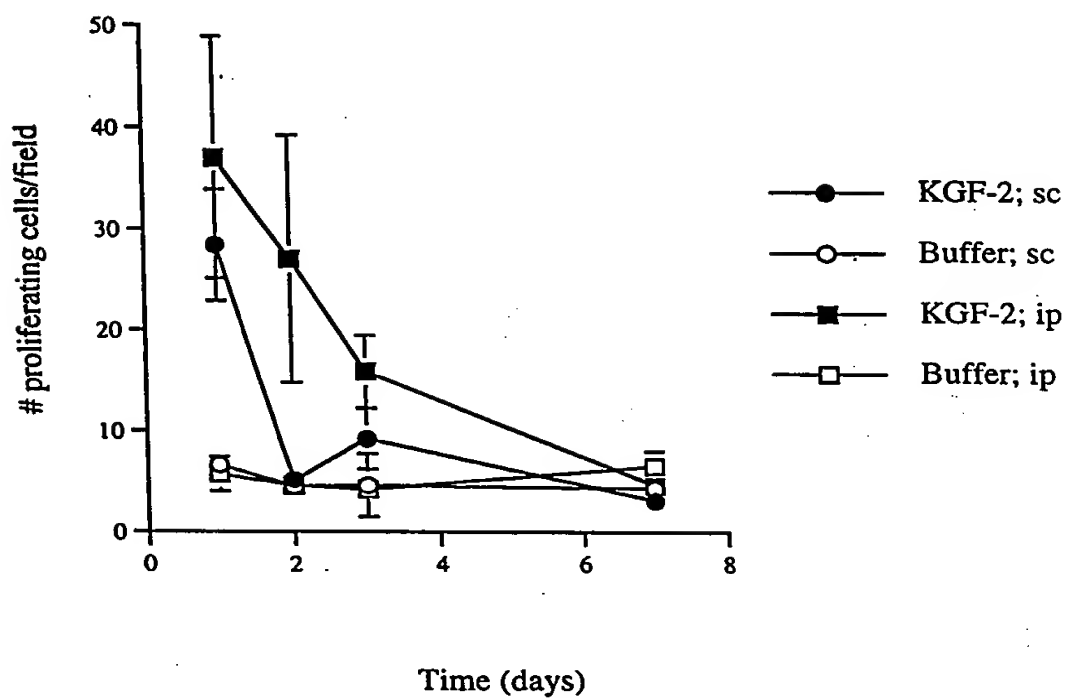


FIGURE 57

Proliferation of pancreatic cells following systemic administration of KGF-2

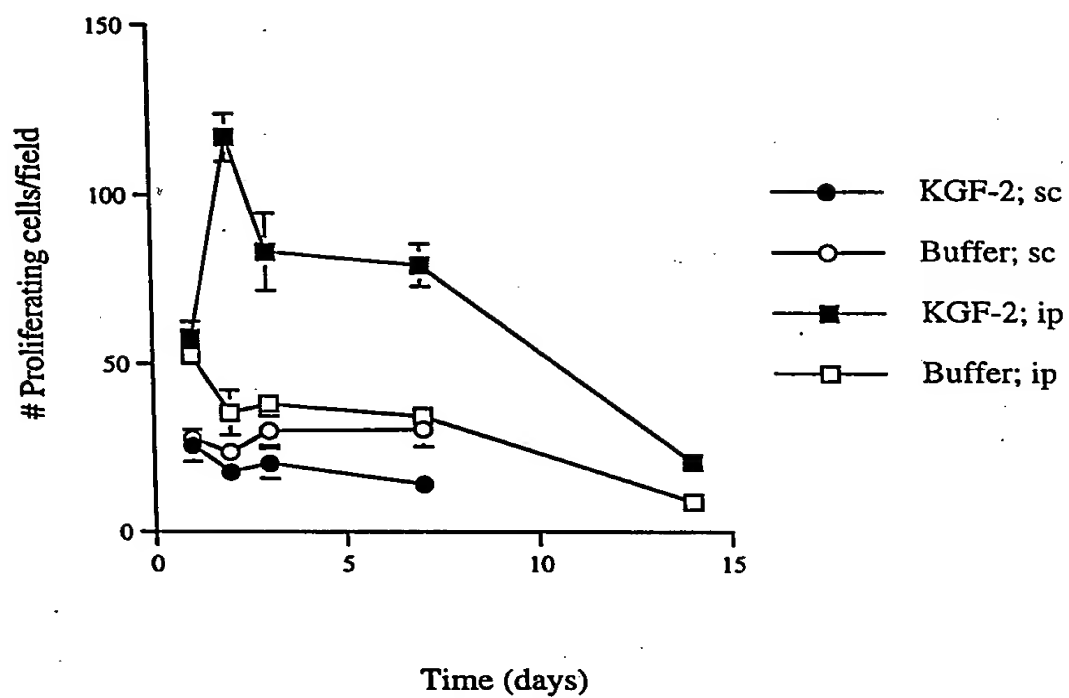


FIGURE 58

Proliferation of renal epithelia after systemic administration of KGF-2

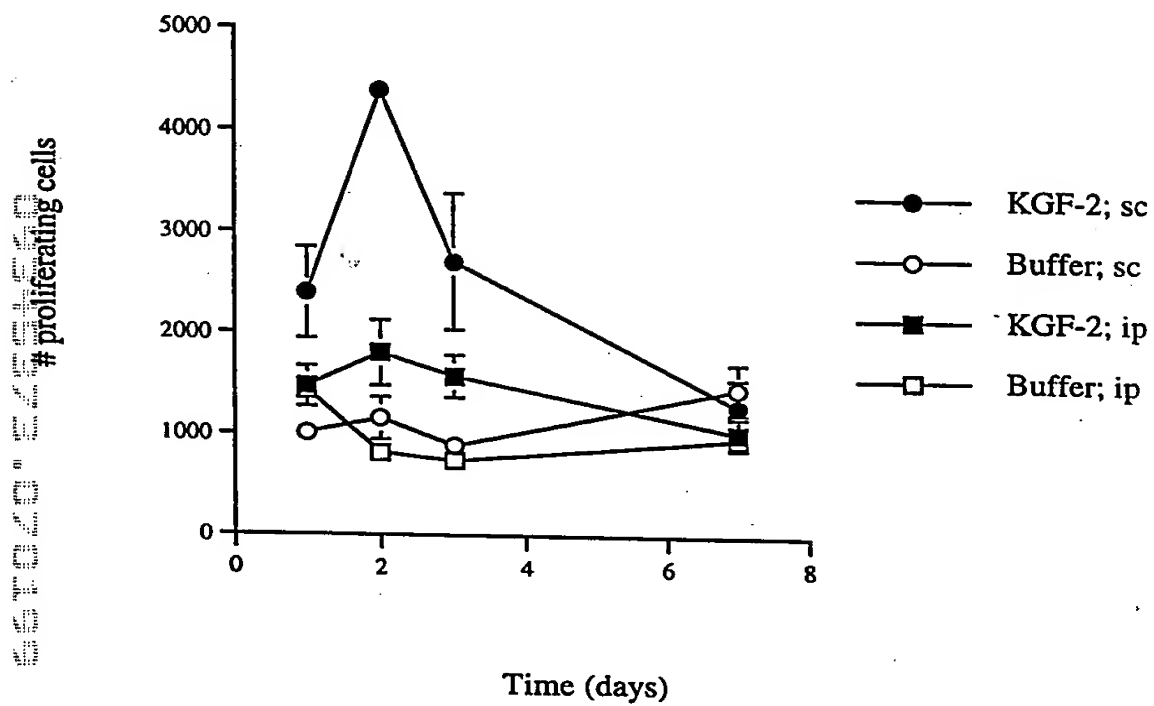


FIGURE 59

BrdU Positive Cells/Field

